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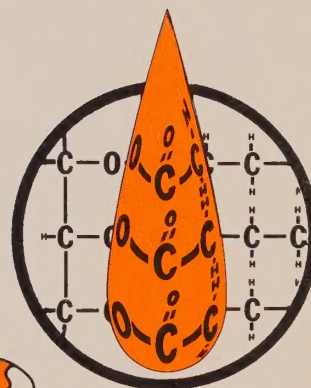
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1981









# Fats & Oils in Canada

ANNUAL REVIEW 1981



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DEPARTMENT OF INDUSTRY, TRADE AND COMMERCE

FATS AND OILS IN CANADA  
ANNUAL REVIEW

1981

Prepared By:

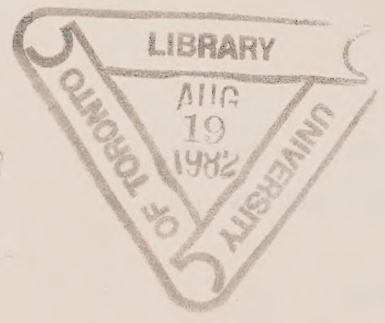
Grain Marketing Office

Department of Industry, Trade and Commerce

Ottawa, Ontario

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## CHAPTER I

### WORLD PRODUCTION OF OILSEEDS, PROTEIN MEALS, FATS AND OILS

#### World Production

According to the U.S.D.A., world oilseed production increased by over 9 per cent in 1981 to nearly 175 million tonnes. Oilseeds showing major increases were soybeans (up 11%), cottonseed (up 8%), and peanuts (up 10%). Soybeans comprised 51.5% of total oilseeds produced in 1981.

Protein meal production increased by nearly 10% in 1981, led by large increases in soybean and rapeseed meals. Soybean meal comprised over 67% of total oilmeal production in 1981.

Oils and fats production in 1981 declined slightly, due to decreases in soybean oil, peanut oil and sunflowerseed oil.

#### Oilseed Production, By Crop

Soybean production increased in most countries but principally in the United States. Brazilian production was off slightly. Cottonseed, peanuts, sunflowerseed, rapeseed and flaxseed all showed increases. The production total for these six crops was 164.4 million tonnes, up 9.7% over 1980 production.

#### Oilseeds, Oils and Fats Trade, 1977-81

The data in Table 3 is repeated from last year's Review, as the U.S.D.A. has not yet published revised data. The data shows a steady uptrend in the volume of edible vegetable oils traded. Industrial oils have not increased, animal fats show some increase while marine oils do not show any trend.

Table 1

| <u>WORLD PRODUCTION<sup>1/</sup></u>    |                |                |                |                             |                             |
|---|----------------|----------------|----------------|-----------------------------|-----------------------------|
| <u>OILSEEDS-PROTEIN MEALS-FATS/OILS</u> |                |                |                |                             |                             |
| (in Thousand Tonnes)                    |                |                |                |                             |                             |
| <u>OILSEEDS</u>                         | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81<sup>2/</sup></u> | <u>1981/82<sup>3/</sup></u> |
| Soybeans                                | 72 021         | 77 225         | 93 371         | 80 942                      | 90 001                      |
| Cottonseed                              | 24 926         | 23 897         | 25 197         | 25 542                      | 27 549                      |
| Peanuts                                 | 17 112         | 18 148         | 17 682         | 16 731                      | 18 391                      |
| Sunflowerseed                           | 12 890         | 12 770         | 15 242         | 13 091                      | 14 203                      |
| Rapeseed                                | 7 918          | 10 703         | 10 180         | 11 323                      | 12 033                      |
| Sesameseed                              | 1 735          | 1 819          | 1 767          | 1 667                       | 1 802                       |
| Safflowerseed                           | 849            | 1 046          | 1 116          | 833                         | 791                         |
| Flaxseed                                | 2 954          | 2 437          | 2 667          | 2 216                       | 2 224                       |
| Castor Beans                            | 789            | 902            | 908            | 859                         | 905                         |
| Copra                                   | 4 941          | 4 404          | 4 706          | 5 096                       | 5 395                       |
| Palm Kernels                            | 1 208          | 1 338          | 1 382          | 1 459                       | 1 533                       |
|   | <hr/>          | <hr/>          | <hr/>          | <hr/>                       | <hr/>                       |
| TOTAL                                   | 147 343        | 154 689        | 174 218        | 159 759                     | 174 827                     |
|   | <hr/>          | <hr/>          | <hr/>          | <hr/>                       | <hr/>                       |
| <u>PROTEIN MEALS<sup>4/</sup></u>       |                |                |                |                             |                             |
| Soybeans                                | 49 689         | 53 538         | 65 470         | 56 012                      | 65 552                      |
| Cottonseed                              | 9 077          | 8 616          | 9 198          | 9 195                       | 10 027                      |
| Peanut                                  | 3 776          | 4 059          | 3 794          | 3 567                       | 3 905                       |
| Sunflower                               | 4 411          | 4 371          | 5 205          | 4 507                       | 4 889                       |
| Rapeseed                                | 4 153          | 5 605          | 5 343          | 5 932                       | 6 337                       |
| Sesameseed                              | 647            | 682            | 661            | 624                         | 680                         |
| Safflowerseed                           | 519            | 641            | 683            | 511                         | 485                         |
| Linseed                                 | 1 680          | 1 379          | 1 511          | 1 260                       | 1 259                       |
| Copra                                   | 1 729          | 1 541          | 1 647          | 1 784                       | 1 888                       |
| Palm Kernel                             | 616            | 682            | 705            | 744                         | 782                         |
| Fish                                    | 4 780          | 4 887          | 4 621          | 4 585                       | 4 516                       |
|   | <hr/>          | <hr/>          | <hr/>          | <hr/>                       | <hr/>                       |
| TOTAL                                   | 81 077         | 86 001         | 98 838         | 88 721                      | 97 320                      |
|   | <hr/>          | <hr/>          | <hr/>          | <hr/>                       | <hr/>                       |



| <u>FATS &amp; OILS</u> <sup>4/</sup> | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> <sup>2/</sup> | <u>1981/82</u> <sup>3/</sup> |
|--------------------------------------|----------------|----------------|----------------|------------------------------|------------------------------|
| <u>EDIBLE VEGETABLE</u>              |                |                |                |                              |                              |
| Soybeans                             | 10 834         | 11 681         | 14 341         | 12 224                       | 13 673                       |
| Cottonseed                           | 3 171          | 3 002          | 3 215          | 3 202                        | 3 504                        |
| Peanut                               | 3 147          | 3 383          | 3 162          | 2 972                        | 3 254                        |
| Sunflowerseed                        | 4 724          | 4 663          | 5 521          | 4 716                        | 5 102                        |
| Rapeseed                             | 2 699          | 3 662          | 3 465          | 3 838                        | 4 027                        |
| Sesameseed                           | 624            | 658            | 638            | 602                          | 656                          |
| Safflowerseed                        | 264            | 324            | 346            | 257                          | 244                          |
| Olive                                | 1 620          | 1 554          | 1 383          | 1 840                        | 1 307                        |
| Corn                                 | 436            | 445            | 470            | 518                          | 525                          |
| Coconut                              | 3 162          | 2 819          | 3 012          | 3 261                        | 3 453                        |
| Palm Kernel                          | 568            | 629            | 650            | 686                          | 721                          |
| Palm                                 | 3 591          | 4 085          | 4 552          | 4 976                        | 5 357                        |
| Babassu                              | 143            | 151            | 150            | 130                          | 130                          |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |
| TOTAL                                | 34 983         | 37 055         | 40 905         | 39 224                       | 41 952                       |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |
| <u>INDUSTRIAL</u>                    |                |                |                |                              |                              |
| Linseed                              | 907            | 745            | 816            | 680                          | 680                          |
| Castor                               | 337            | 386            | 388            | 367                          | 387                          |
| Olive Residue                        | 171            | 142            | 144            | 172                          | 132                          |
| Oiticica                             | 14             | 14             | 14             | 14                           | 14                           |
| Tung                                 | 95             | 101            | 100            | 90                           | 90                           |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |
| TOTAL                                | 1 524          | 1 388          | 1 462          | 1 323                        | 1 303                        |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |
| <u>MARINE OILS</u>                   |                |                |                |                              |                              |
| Fish                                 | 1 216          | 1 268          | 1 135          | 1 239                        | 1 211                        |
| Whale                                | 8              | 10             | 10             | 10                           | 10                           |
| Sperm Whale                          | 58             | 58             | 58             | 58                           | 58                           |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |
| TOTAL                                | 1 282          | 1 336          | 1 203          | 1 307                        | 1 279                        |
|                                      | <hr/>          | <hr/>          | <hr/>          | <hr/>                        | <hr/>                        |

| <u>ANIMAL FATS</u>   | <u>1977/78</u>    | <u>1978/79</u>    | <u>1979/80</u>    | <u>1980/81</u> <sup>2/</sup> | <u>1981/82</u> <sup>3/</sup> |
|----------------------|-------------------|-------------------|-------------------|------------------------------|------------------------------|
| Butter (Fat Content) | 4 930             | 4 950             | 4 957             | 4 927                        | 4 962                        |
| Lard                 | 3 703             | 3 876             | 4 012             | 3 827                        | 3 804                        |
| Tallow and Grease    | 5 800             | 5 600             | 5 550             | 6 047                        | 6 038                        |
|                      | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u>            | <u>          </u>            |
| TOTAL                | 14 433            | 14 426            | 14 519            | 14 801                       | 14 804                       |
|                      | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u>            | <u>          </u>            |
| TOTAL (FATS & OILS)  | 52 222            | 54 205            | 58 089            | 56 656                       | 59 338                       |
|                      | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u>            | <u>          </u>            |

<sup>1/</sup> Split year includes Northern Hemisphere crops harvested in the late months of the first year shown combined with Southern Hemisphere and certain Northern Hemisphere crops harvested in the early months of the following year. Animal, marine and palm products are calendar year estimates for the second year shown.

<sup>2/</sup> Preliminary

<sup>3/</sup> Forecast

<sup>4/</sup> Oilseed meal and oil production calculated from assumed extraction rates represent potential not actual production.

Source: United States Department of Agriculture  
FOP 22-81



Table 2

PRODUCTION OF MAJOR OILSEEDS, BY MAIN PRODUCERS, IN THOUSANDS OF TONNES <sup>1/</sup>

|                            | <u>Average 1974/75-1978/79</u> | <u>1980/81</u> <sup>2/</sup> | <u>1981/82</u> <sup>3/</sup> |
|----------------------------|--------------------------------|------------------------------|------------------------------|
| <u>SOYBEANS:</u>           |                                |                              |                              |
| United States              | 41 813                         | 48 772                       | 56 527                       |
| Brazil                     | 10 660                         | 15 500                       | 15 200                       |
| China, Mainland            | 8 100                          | 7 880                        | 8 100                        |
| Argentina                  | 1 796                          | 3 500                        | 4 300                        |
| Paraguay                   | 332                            | 600                          | 625                          |
| Other                      | 3 825                          | 4 690                        | 5 249                        |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL                      | 66 526                         | 80 942                       | 90 001                       |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| <u>COTTONSEED:</u>         |                                |                              |                              |
| Soviet Union               | 4 669                          | 5 082                        | 5 000                        |
| China, Mainland            | 4 436                          | 5 414                        | 5 800                        |
| United States              | 3 926                          | 4 056                        | 5 614                        |
| India                      | 2 450                          | 2 700                        | 2 800                        |
| Pakistan                   | 1 024                          | 1 368                        | 1 500                        |
| Other                      | 7 092                          | 6 922                        | 6 835                        |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL                      | 23 597                         | 25 542                       | 27 549                       |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| <u>PEANUTS: (IN SHELL)</u> |                                |                              |                              |
| India                      | 5 921                          | 5 700                        | 6 200                        |
| China, Mainland            | 2 501                          | 3 600                        | 3 600                        |
| United States              | 1 723                          | 1 047                        | 1 814                        |
| Senegal                    | 1 064                          | 489                          | 600                          |
| Sudan                      | 890                            | 799                          | 800                          |
| Brazil                     | 416                            | 310                          | 350                          |
| South Africa               | 227                            | 300                          | 350                          |
| Other                      | 5 010                          | 4 486                        | 4 677                        |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL                      | 17 752                         | 16 731                       | 18 391                       |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| <u>SUNFLOWERSEED:</u>      |                                |                              |                              |
| Soviet Union               | 5 658                          | 4 652                        | 4 800                        |
| Argentina                  | 1 149                          | 1 260                        | 1 650                        |
| United States              | 889                            | 1 748                        | 2 101                        |
| Romania                    | 766                            | 650                          | 850                          |
| Bulgaria                   | 390                            | 378                          | 300                          |
| Other                      | 2 418                          | 4 403                        | 4 502                        |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL                      | 11 270                         | 13 091                       | 14 203                       |
|                            | <hr/>                          | <hr/>                        | <hr/>                        |

|                     | <u>Average 1974/75-1978/79</u> | <u>1980/81</u> <sup>2/</sup> | <u>1981/82</u> <sup>3/</sup> |
|---------------------|--------------------------------|------------------------------|------------------------------|
| <u>RAPESEED:</u>    |                                |                              |                              |
| India               | 1 850                          | 2 150                        | 2 200                        |
| China, Mainland     | 1 528                          | 2 384                        | 3 800                        |
| Canada              | 1 854                          | 2 483                        | 1 794                        |
| Poland              | 726                            | 566                          | 483                          |
| France              | 526                            | 1 091                        | 1 023                        |
| Other               | 2 013                          | 2 635                        | 2 733                        |
|                     | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL               | 8 497                          | 11 323                       | 12 033                       |
|                     | <hr/>                          | <hr/>                        | <hr/>                        |
| <u>FLAXSEED:</u>    |                                |                              |                              |
| India               | 524                            | 525                          | 400                          |
| Argentina           | 599                            | 585                          | 700                          |
| Soviet Union        | 323                            | 196                          | 200                          |
| Canada              | 460                            | 465                          | 477                          |
| United States       | 306                            | 206                          | 200                          |
| Other               | 397                            | 239                          | 247                          |
|                     | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL               | 2 609                          | 2 216                        | 2 224                        |
|                     | <hr/>                          | <hr/>                        | <hr/>                        |
| TOTAL (ABOVE CROPS) | 130 251                        | 149 845                      | 164 401                      |
|                     | <hr/>                          | <hr/>                        | <hr/>                        |

<sup>1/</sup> Split year includes Northern Hemisphere crop harvested in the late months of the first year shown combined with Southern Hemisphere and certain Northern Hemisphere crops harvested in the early months of the following year.

<sup>2/</sup> Preliminary

<sup>3/</sup> Forecast



Table 3

WORLD OILSEEDS, OILS & FATS TRADE, 1977-81  
IN THOUSANDS OF TONNES <sup>1/</sup>

|  | <u>1977</u> | <u>1978</u> | <u>Preliminary<br/>1979</u> | <u>Forecast<br/>1980</u> | <u>Forecast<br/>1981</u> |
|--|-------------|-------------|-----------------------------|--------------------------|--------------------------|
| <u>WORLD EDIBLE<br/>VEGETABLE OILS</u> |             |             |                             |                          |                          |
| Cottonseed                             | 409         | 415         | 372                         | 410                      | 410                      |
| Peanut                                 | 900         | 690         | 741                         | 780                      | 711                      |
| Soybean                                | 4 825       | 5 668       | 6 105                       | 6 725                    | 6 950                    |
| Sunflower                              | 892         | 1 316       | 1 236                       | 1 425                    | 1 115                    |
| Rapeseed                               | 960         | 937         | 1 252                       | 1 250                    | 1 100                    |
| Sesame                                 | 95          | 90          | 95                          | 100                      | 108                      |
| Safflower                              | 13          | 20          | 19                          | 25                       | 18                       |
| Olive 2/                               | 103         | 137         | 129                         | 125                      | 150                      |
| Corn                                   | 97          | 102         | 118                         | 150                      | 122                      |
| Coconut                                | 1 433       | 1 583       | 1 234                       | 1 400                    | 1 550                    |
| Palm Kernel                            | 319         | 310         | 380                         | 420                      | 450                      |
| Palm                                   | 2 059       | 2 059       | 2 411                       | 2 750                    | 3 000                    |
| Babassu                                | 4           | 9           | 5                           | 5                        | 5                        |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| TOTAL                                  | 12 035      | 13 336      | 14 097                      | 15 565                   | 15 689                   |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| <u>INDUSTRIAL OILS</u>                 |             |             |                             |                          |                          |
| Linseed                                | 366         | 501         | 381                         | 390                      | 375                      |
| Castor                                 | 186         | 221         | 238                         | 210                      | 225                      |
| Oiticica                               | 2           | 10          | 5                           | 5                        | 5                        |
| Tung                                   | 36          | 35          | 38                          | 40                       | 30                       |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| TOTAL                                  | 590         | 767         | 662                         | 645                      | 635                      |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| <u>ANIMAL FATS</u>                     |             |             |                             |                          |                          |
| Butter (Fat Content)                   | 805         | 764         | 956                         | 881                      | 863                      |
| Lard                                   | 575         | 534         | 524                         | 520                      | 520                      |
| Tallow & Greases <sup>3/</sup>         | 2 313       | 2 263       | 2 357                       | 2 535                    | 2 535                    |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| TOTAL                                  | 3 693       | 3 561       | 3 837                       | 3 936                    | 3 918                    |
|  | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |

|                           | <u>1977</u> | <u>1978</u> | <u>Preliminary<br/>1979</u> | <u>Forecast<br/>1980</u> | <u>Forecast<br/>1981</u> |
|---------------------------|-------------|-------------|-----------------------------|--------------------------|--------------------------|
| <u>MARINE OILS</u>        |             |             |                             |                          |                          |
| Whale                     | 11          | 5           | 7                           | 5                        | 5                        |
| Sperm Whale               | 18          | 16          | 13                          | 12                       | 10                       |
| Fish (Including<br>Liver) | 545         | 644         | 726                         | 650                      | 650                      |
|                           | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| TOTAL                     | 574         | 665         | 746                         | 667                      | 665                      |
|                           | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |
| WORLD TOTAL               | 16 892      | 18 329      | 19 342                      | 20 813                   | 20 907                   |
|                           | <hr/>       | <hr/>       | <hr/>                       | <hr/>                    | <hr/>                    |

<sup>1/</sup> Exports from producing countries. Includes oil equivalent of seed exports.

<sup>2/</sup> Net exports from Mediterranean basin.

<sup>3/</sup> Includes edible and inedible tallow and grease. Excludes animal oils.

Source: USDA FOP-27-80



## CHAPTER 2

### CANADIAN OILSEED PRODUCTION, PROCESSING AND TRADE IN FATS AND OILS

#### Canadian Oilseeds: Area, Yield, Production

Oilseed acreage in general declined sharply in 1981, with Canola/rapeseed showing the largest decrease. Yields were up except in the case of soybeans. Flaxseed production increased, but Canola/rapeseed, soybeans, sunflowerseed and mustardseed all decreased because of lower seeded acreage.

#### Oilseed Processing

Statistics Canada publishes crush volume data for Canola and soybeans only. For the 1980/81 crop year which ended July 31, 1981, Canola crushings were up by 11.8% while soybean crush volume was off marginally. As a result, Canola oil and meal production increased by about 14.6% and 10% respectively, while soybean oil and meal production were relatively unchanged.

#### Trade - Oils and Fats

Vegetable oils comprise nearly 90% of the edible oils and fats imported, and about 50% of exports in this category. Tallow is a major export item at 40% of exports. In 1981, total imports of fats and oils declined by 10% in volume, while exports grew by 13%. Much of the export growth in 1981 came from Canola/rapeseed oil.

Table 4

| CANADIAN OILSEEDS: AREA, YIELD, PRODUCTION |                         |             |             |             |             |                                |             |             |             |             |
|--|-------------------------|-------------|-------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|-------------|
|  | <u>1977</u>             | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> | <u>1977</u>                    | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|  | (Thousands of Hectares) |             |             |             |             | (Yield Per Hectare, Kilograms) |             |             |             |             |
| Flaxseed                                   | 596                     | 518         | 927         | 575         | 465         | 1 091                          | 1 040       | 902         | 808         | 1 026       |
| Canola/Rapeseed                            | 1 453                   | 2 806       | 3 439       | 2 080       | 1 448       | 1 359                          | 1 201       | 1 035       | 1 194       | 1 239       |
| Soybeans                                   | 202                     | 263         | 283         | 283         | 287         | 2 546                          | 1 802       | 2 373       | 2 520       | 2 199       |
| Mustardseed                                | 74                      | 98          | 62          | 93          | 76          | 1 058                          | 1 036       | 860         | 975         | 1 086       |
| Sunflowerseed                              | 68                      | 87          | 164         | 136         | 121         | 1 167                          | 1 290       | 1 347       | 1 285       | 1 373       |
|  | <u>Production</u>       |             |             |             |             | <u>Oil Equivalent</u>          |             |             |             |             |
|  | (Tonnes)                |             |             |             |             | (Tonnes)                       |             |             |             |             |
| Flaxseed                                   | 650 300                 | 538 500     | 835 700     | 464 800     | 477 000     | 230 206                        | 190 629     | 295 838     | 164 539     | 168 858     |
| Canola/Rapeseed                            | 1 973 100               | 3 349 700   | 3 560 700   | 2 483 400   | 1 794 100   | 826 729                        | 1 403 524   | 1 491 933   | 1 050 056   | 751 728     |
| Soybeans                                   | 517 100                 | 475 134     | 671 700     | 713 200     | 631 000     | 93 078                         | 85 524      | 85 524      | 120 906     | 113 580     |
| Mustardseed                                | 79 380                  | 103 420     | 53 300      | 90 700      | 82 500      | -                              | -           | -           | -           | -           |
| Sunflowerseed                              | 80 967                  | 113 853     | 220 900     | 174 800     | 166 100     | 32 387                         | 45 541      | 88 360      | 66 440      | 69 920      |

|                         |               |       |                |
|-------------------------|---------------|-------|----------------|
| Oil Conversion Factors: | Flaxseed      | ..... | 35.4%          |
|                         | Rapeseed      | ..... | 41.9%          |
|                         | Soybeans      | ..... | 18.0%          |
|                         | Mustardseed   | ....  | Not Applicable |
|                         | Sunflowerseed | ...   | 40.0%          |



Table 5

## CANADIAN OILSEED PRODUCTION BY PROVINCE

|                        | A R E A             |      |      | Y I E L D               |       |       | P R O D U C T I O N |           |         |
|------------------------|---------------------|------|------|-------------------------|-------|-------|---------------------|-----------|---------|
|                        | (Thousand Hectares) |      |      | (Kilograms Per Hectare) |       |       | (Tonnes)            |           |         |
|                        | 1979                | 1980 | 1981 | 1979                    | 1980  | 1981  | 1979                | 1980      | 1981    |
| <u>FLAXSEED</u>        |                     |      |      |                         |       |       |                     |           |         |
| Manitoba               | 506                 | 324  | 283  | 929                     | 666   | 950   | 469 900             | 215 900   | 269 000 |
| Saskatchewan           | 324                 | 182  | 142  | 800                     | 907   | 1 070 | 259 100             | 165 100   | 152 000 |
| Alberta                | 97                  | 69   | 40   | 1 100                   | 1 214 | 1 400 | 106 700             | 83 800    | 56 000  |
| <u>CANOLA/RAPESEED</u> |                     |      |      |                         |       |       |                     |           |         |
| Manitoba               | 567                 | 324  | 263  | 1 160                   | 980   | 1 293 | 657 000             | 317 500   | 340 000 |
| Saskatchewan           | 1 335               | 809  | 526  | 960                     | 1 234 | 1 293 | 1 281 400           | 997 900   | 680 000 |
| Alberta                | 1 416               | 890  | 627  | 1 049                   | 1 274 | 1 193 | 1 485 500           | 1 134 000 | 748 000 |
| British Columbia       | 121                 | 57   | 32   | 1 125                   | 995   | 816   | 136 100             | 56 700    | 26 100  |
| <u>SOYBEANS</u>        |                     |      |      |                         |       |       |                     |           |         |
| Ontario                | 283                 | 283  | 287  | 2 373                   | 2 520 | 2 199 | 671 700             | 713 200   | 631 000 |
| <u>SUNFLOWERSEED</u>   |                     |      |      |                         |       |       |                     |           |         |
| Manitoba               | 154                 | 129  | 117  | 1 231                   | 1 231 | 1 462 | 208 700             | 158 800   | 171 000 |
| Saskatchewan           | 10                  | 7    | 4    | 1 220                   | 1 043 | 950   | 12 200              | 7 300     | 3 800   |
| <u>MUSTARDSEED</u>     |                     |      |      |                         |       |       |                     |           |         |
| Manitoba               | 10                  | 18   | 17   | 950                     | 905   | 1 012 | 9 500               | 16 300    | 17 200  |
| Saskatchewan           | 38                  | 61   | 45   | 795                     | 915   | 1 029 | 30 200              | 55 800    | 46 300  |
| Alberta                | 14                  | 20   | 14   | 971                     | 1 270 | 1 357 | 13 600              | 25 400    | 19 000  |

Table 6

CANADIAN CRUSHINGS OF VEGETABLE OILSEEDS AND  
PRODUCTION OF OIL AND MEAL BY CROP YEAR  
(Tonnes)

| <u>CRUSHINGS</u>       | <u>1976/77</u>               | <u>1977/78</u>               | <u>1978/79</u>               | <u>1979/80</u>               | <u>1980/81</u>               |
|------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Flaxseed               | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| Canola/Rapeseed        | 549 174                      | 630 300                      | 725 100                      | 897 300                      | 1 003 300                    |
| Soybeans               | 684 995                      | 728 400                      | 742 600                      | 938 400                      | 929 700                      |
| Sunflowerseed          | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| TOTAL                  | <u>1 234 709</u>             | <u>1 358 700</u>             | <u>1 467 700</u>             | <u>1 835 700</u>             | <u>1 933 000</u>             |
| <u>OIL PRODUCTION</u>  |                              |                              |                              |                              |                              |
| Flaxseed               | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| Canola/Rapeseed        | 225 805                      | 259 000                      | 296 300                      | 364 900                      | 418 200                      |
| Soybeans               | 115 616                      | 125 600                      | 129 000                      | 157 000                      | 158 900                      |
| Sunflowerseed          | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| TOTAL                  | <u>341 421</u>               | <u>384 600</u>               | <u>425 300</u>               | <u>521 900</u>               | <u>577 100</u>               |
| <u>MEAL PRODUCTION</u> |                              |                              |                              |                              |                              |
| Flaxseed               | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| Canola/Rapeseed        | 314 903                      | 357 500                      | 416 700                      | 520 800                      | 573 600                      |
| Soybeans               | 540 689                      | 575 400                      | 576 700                      | 738 300                      | 731 700                      |
| Sunflowerseed          | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> | x <sup>1/</sup> <sub>-</sub> |
| TOTAL                  | <u>855 592</u>               | <u>932 900</u>               | <u>993 400</u>               | <u>1 259 100</u>             | <u>1 305 300</u>             |

<sup>1/</sup> Confidential - to meet secrecy requirements  
of the Statistics Act.

Source: Statistics Canada, Catalogue No. 22-007

Table 7

CANADIAN IMPORTS OF FATS AND OILS

(Tonnes)

PRIMARILY EDIBLE

| <u>Vegetable Oils</u>                           | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|---|-------------|-------------|-------------|-------------|-------------|
| Soybean Oil                                     | 28 138      | 28 069      | 22 234      | 12 139      | 4 294       |
| Cottonseed Oil                                  | 5 497       | 4 723       | 4 285       | 4 616       | 2 680       |
| Corn Oil  | 15 482      | 19 707      | 16 627      | 17 284      | 16 225      |
| Peanut Oil                                      | 6 845       | 6 460       | 5 461       | 4 977       | 4 137       |
| Coconut Oil                                     | 24 218      | 22 313      | 25 712      | 20 216      | 23 075      |
| Palm Oil  | 31 179      | 23 205      | 18 366      | 19 968      | 15 185      |
| Palm Kernel Oil                                 | 7 192       | 7 252       | 8 807       | 8 908       | 8 603       |
| Olive Oil                                       | 4 840       | 2 814       | 2 676       | 4 296       | 2 877       |
| Cocoa Butter                                    | 4 835       | 3 562       | 3 495       | 3 717       | 4 505       |
| Sunflowerseed Oil                               | 59          | 171         | 460         | 31          | 63          |
| Vegetable Oils &<br>Fats NES                    | 2 270       | 3 235       | 2 032       | 4 048       | 4 724       |
| Vegetable Cooking Fats<br>& Packaged Salad Oils | 423         | 163         | 23          | 35          | 61          |
| <br>TOTAL                                       | <br>130 978 | <br>121 674 | <br>110 178 | <br>100 235 | <br>86 429  |
| <br><u>Animal Fats</u>                          |             |             |             |             |             |
| Lard  | 17 841      | 13 106      | 10 751      | 8 289       | 10 529      |
| Butter <sup>1/</sup>                            | 13          | 4 165       | 6           | 36          | 23          |
| <br>TOTAL                                       | <br>17 854  | <br>17 271  | <br>10 756  | <br>8 325   | <br>10 552  |
| <br><u>Marine Oils</u>                          |             |             |             |             |             |
| Fish & Marine Oil                               | 410         | 654         | 308         | 529         | 431         |
| <br>TOTAL                                       | <br>410     | <br>654     | <br>308     | <br>529     | <br>431     |
| <br>TOTAL EDIBLE OILS<br>AND FATS               | <br>149 242 | <br>139 599 | <br>121 242 | <br>109 089 | <br>97 412  |



| <u>PRIMARILY INEDIBLE</u>                         | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|---|-------------|-------------|-------------|-------------|-------------|
| Castor Oil  | 1 311       | 1 684       | 1 721       | 1 183       | 1 740       |
| Tung Oil  | 699         | 680         | 640         | 526         | 613         |
| Tallow <u>2/</u>                                  | 590         | 498         | 1 483       | 2 183       | 1 959       |
| Animal Oil & Fats NES                             | 568         | 4 810       | 1 186       | 1 547       | 1 495       |
| Animal Grease <u>3/</u>                           | 1 790       | 2 298       | 3 335       | 2 343       | 1 303       |
|   | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL INEDIBLE<br>OILS & FATS                     | 4 958       | 9 870       | 8 365       | 7 782       | 7 110       |
|   | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL EDIBLE &<br>INEDIBLE FATS &<br>OILS IMPORTS | 154 200     | 149 469     | 129 607     | 116 871     | 104 522     |
|   | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

- 1/ Butter imports have been converted to oil equivalent, using the factor of 81 per cent.
- 2/ This class includes both edible and inedible tallow. The proportions are not known.
- 3/ This category includes Animal Grease, NES and Wool Grease and Lanolin.

Source: Statistics Canada, Catalogue No. 65-007

Table 8

CANADIAN EXPORTS OF FATS AND OILS

(Tonnes)

PRIMARILY EDIBLE

| <u>Vegetable Oils</u>    | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Soybean Oil              | 23          | 1 406       | 9 626       | 14 140      | 10 927      |
| Canola/Rapeseed Oil      | 102 700     | 82 348      | 119 476     | 172 686     | 190 659     |
| Margarine, Shortening    | 634         | 1 559       | 955         | 462         | 504         |
| Vegetable Oil & Fats NES | 1 413       | 3 512       | 7 220       | 2 228       | 18 343      |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                    | 104 770     | 88 825      | 137 277     | 189 516     | 220 433     |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Animal Fats

|                                      |       |       |       |       |       |
|--------------------------------------|-------|-------|-------|-------|-------|
| Butter<br>(Oil Equiv.) <sup>1/</sup> | 273   | 189   | 16    | 51    | 49    |
|                                      | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |
| TOTAL                                | 273   | 189   | 16    | 51    | 49    |
|                                      | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |

Marine Oils

|             |       |       |       |       |       |
|-------------|-------|-------|-------|-------|-------|
| Herring Oil | 4 124 | 3 679 | 6 274 | 4 724 | 4 196 |
| Whale Oil   | 14    | 11    | --    | 8     | 3     |
|             | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |
| TOTAL       | 4 138 | 3 690 | 6 274 | 4 732 | 4 199 |
|             | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |

PRIMARILY INEDIBLE

|   |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Linseed Oil                                   | 5 717   | 8 099   | 4 650   | 3 763   | 12 427  |
| Tallow 2/                                     | 140 829 | 138 053 | 149 267 | 166 379 | 171 306 |
| Marine Oils 3/                                | 11 902  | 5 707   | 5 166   | 4 117   | 3 936   |
| Animal Fats & Oils NES                        | 6 931   | 5 062   | 5 311   | 8 667   | 15 257  |
|   | <hr/>   | <hr/>   | <hr/>   | <hr/>   | <hr/>   |
| TOTAL INEDIBLE<br>FATS AND OILS               | 165 379 | 156 921 | 164 394 | 182 926 | 202 926 |
|   | <hr/>   | <hr/>   | <hr/>   | <hr/>   | <hr/>   |
| TOTAL EDIBLE AND<br>INEDIBLE FATS AND<br>OILS | 274 560 | 249 625 | 307 961 | 377 225 | 427 607 |
|   | <hr/>   | <hr/>   | <hr/>   | <hr/>   | <hr/>   |

FOOTNOTES TO  
CANADIAN EXPORTS OF FATS AND OILS

- 1/ Butter exports have been converted to oil equivalent, using the factor of 81 per cent.
  
- 2/ This class includes both edible and inedible tallow. The proportions are not known.
  
- 3/ Marine Oil exports listed under "Inedible Oils" include sun-rotted cod liver oil, a non-specified group of fish and marine oil, and fish liver and visceral oils. While most of these oils can be assumed to be of an inedible grade, a small quantity of edible soy may have been included.

Source: Statistics Canada, Catalogue No. 65-007



CHAPTER 3

THE CANADIAN CANOLA/RAPESEED SITUATION

Production and Exports - Seed

For the 1980/81 crop year, carry-in stocks of seed were nearly 1.5 million tonnes, production was 2.5 million tonnes, exports 1.4 million tonnes and the domestic crush just over 1 million tonnes. The domestic crush volume has been increasing gradually, and this trend should continue in 1981/82 as additional plant capacity is utilized.

Production and Exports - Oil and Meal

Statistics Canada reports that 418 200 tonnes of oil and 573 600 tonnes of meal were produced in 1980/81. This is a growth rate of 11% for oil and meal.

Exports of these products are also expanding at about 30% for oil and 16% for meal, compared to the previous crop year.

Expanded export sales reflect the competitiveness of these products in terms of price and quality. In 1981, Canola oil was exported (in some instances as food aid) to 15 countries, while Canola meal found its way to 7 countries.

Table 9

CANADIAN SUPPLY AND DISPOSITION OF CANOLA/RAPESEED,

OIL AND MEAL

(Crop Year)

| <u>SEED</u>         | <u>1976/77</u> | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> |
|---------------------|----------------|----------------|----------------|----------------|----------------|
|                     |                |                | (Tonnes)       |                |                |
| Stocks              | 1 048 648      | 199 000        | 325 000        | 1 068 100      | 1 476 900      |
| Production          | 836 886        | 1 973 100      | 3 497 100      | 3 411 100      | 2 483 400      |
| Exports             | 1 017 871      | 1 013 600      | 1 642 295      | 1 742 600      | 1 372 600      |
| Domestic Crashings  | 549 714        | 630 300        | 725 100        | 897 300        | 1 003 300      |
| <u>OIL</u>          |                |                |                |                |                |
| Exports             | 91 648         | 73 500         | 109 969        | 151 500        | 198 100        |
| Domestic Production | 225 806        | 259 000        | 290 040        | 375 969        | 418 200        |
| <u>MEAL</u>         |                |                |                |                |                |
| Exports             | 107 088        | 156 300        | 172 476        | 176 300        | 204 000        |
| Domestic Production | 314 903        | 357 500        | 416 933        | 515 948        | 573 600        |

Source: Statistics Canada, Catalogue No. 22-007

Table 10

CANADIAN EXPORTS OF CANOLA/RAPESEED

(Tonnes)

| <u>DESTINATION</u>          | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Algeria                     | 38 266        | 74 498        | 43 986        | 34 773        | 23 100        |
| Australia                   | 5             | --            | 18            | 54            | 1 480         |
| Bangladesh                  | 17 530        | 28 969        | 13 151        | 22 700        | 8 575         |
| Belgium-Luxembourg          | 248           | 1 000         | 750           | 1 100         | 500           |
| Brazil                      | 27            | 1             | 89 600        | --            | --            |
| Czechoslovakia              | --            | 2 500         | 2 490         | --            | --            |
| Denmark                     | 18            | 73            | --            | 37            | 55            |
| Finland                     | 82            | 116           | 44            | 108           | --            |
| France                      | 1 519         | 755           | 38 676        | 20 359        | 18            |
| Germany, West               | 66 843        | 50 364        | 232 532       | 92 439        | 36 964        |
| India                       | 13 650        | 207 013       | 18 823        | 9 225         | 7 150         |
| Italy                       | 1 930         | --            | 15 080        | --            | --            |
| Japan                       | 746 082       | 801 229       | 1 157 771     | 994 622       | 1 168 836     |
| Korea, South                | --            | 162           | 38 152        | 14 160        | 23 931        |
| Mexico                      | --            | --            | --            | 7 641         | 40 761        |
| Morocco                     | --            | --            | 24 155        | 11 000        | --            |
| Netherlands                 | 111 876       | 36 545        | 275 488       | 127 557       | 70 467        |
| Singapore                   | 12 887        | --            | --            | --            | --            |
| Spain                       | 70            | 253           | 1 244         | 253           | 3 047         |
| Sweden                      | 104           | 1             | --            | --            | --            |
| Switzerland                 | --            | 2 794         | --            | --            | 5             |
| United Kingdom              | 5 884         | 1 365         | 11 091        | 9 566         | 18 714        |
| United States               | 563           | 466           | 316           | 11 823        | 424           |
| USSR                        | --            | --            | 24 898        | 720           | --            |
| Venezuela                   | --            | 27            | --            | --            | 20            |
| Other                       | 10 359        | 1             | 2             | 29            | 2             |
| <br>TOTAL                   | <br>1 027 943 | <br>1 208 132 | <br>1 988 267 | <br>1 358 166 | <br>1 404 049 |
| <br>TOTAL VALUE<br>(\$'000) | <br>310 047   | <br>369 549   | <br>631 446   | <br>421 901   | <br>464 520   |

Source: Statistics Canada, Catalogue No. 65-004



Table 11

CANADIAN EXPORTS OF CANOLA/RAPESEED OIL

(Tonnes)

| <u>DESTINATION</u>          | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| Algeria                     | 3 216       | --          | 6 030       | --          | 21 275      |
| Australia                   | 2 917       | 3 314       | 3 348       | 4 280       | 8 893       |
| Bangladesh                  | 7 000       | 9 014       | 2 698       | --          | --          |
| Brazil                      | --          | --          | --          | 707         | 104         |
| Chile                       | --          | 500         | 12 178      | 3 344       | --          |
| Dominican Republic          | --          | --          | --          | 878         | --          |
| Ecuador                     | 504         | --          | --          | --          | --          |
| Ethiopia                    | --          | --          | --          | 799         | --          |
| Germany, West               | 2 217       | --          | --          | --          | --          |
| Haiti                       | 2 434       | --          | --          | 109         | --          |
| Hong Kong                   | 5 133       | 5 592       | 5 987       | 13 358      | 15 938      |
| India                       | 66 794      | 78 525      | 70 069      | 117 524     | 88 811      |
| Japan                       | 6 415       | 12 516      | 8 664       | 9 769       | 19 808      |
| Lebanon                     | 650         | --          | --          | --          | --          |
| Leeward-Windward Is.        | --          | 14          | 14          | 16          | 17          |
| Madagascar                  | 284         | --          | --          | --          | --          |
| Mexico                      | --          | 178         | 938         | 349         | 345         |
| Morocco                     | --          | 2 818       | 3 528       | 3 148       | --          |
| Mozambique                  | --          | 515         | --          | --          | --          |
| Netherlands                 | --          | --          | --          | 6 000       | 26 380      |
| New Zealand                 | --          | 118         | 121         | 631         | 758         |
| Nicaragua                   | --          | --          | --          | 318         | --          |
| Pakistan                    | --          | 7           | 170         | --          | 748         |
| People's Republic of China  | --          | --          | --          | 696         | 612         |
| Singapore                   | --          | --          | 696         | 752         | 733         |
| South Korea                 | --          | 104         | 1 600       | --          | --          |
| Spain                       | --          | --          | --          | 5 999       | --          |
| United States               | 2 064       | 1 650       | 2 607       | 2 851       | 3 689       |
| Other Countries             | 1 002       | 14          | 894         | 1 178       | 2 548       |
| <br>TOTAL                   | <br>102 700 | <br>114 879 | <br>119 476 | <br>172 686 | <br>190 659 |
| <br>TOTAL VALUE<br>(\$'000) | <br>61 907  | <br>66 489  | <br>85 073  | <br>118 783 | <br>113 776 |

Source: Statistics Canada, Catalogue No. 65-004

Table 12

CANADIAN EXPORTS OF CANOLA/RAPESEED MEAL

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Chile                   | --          | --          | 3 836       | --          | --          |
| Germany, West           | 57 565      | 94 005      | 56 932      | 98 074      | 31 513      |
| Ireland                 | 1 000       | --          | 950         | 525         | 4 330       |
| Japan                   | 4 001       | 11 822      | 108         | 1 494       | --          |
| Korea, South            | --          | --          | 3 849       | --          | --          |
| Netherlands             | 7 967       | 6 209       | 3 382       | 24 795      | 18 593      |
| Norway                  | 24 395      | 30 666      | 51 054      | 64 367      | 49 799      |
| Taiwan                  | 2 051       | 5 699       | --          | 80          | 4 059       |
| United Kingdom          | 21 968      | 21 597      | 35 564      | 2 825       | 35 381      |
| United States           | 8 232       | 992         | 6 792       | 14 780      | 39 097      |
| Other                   | 9 212       | --          | 33          | 16          | --          |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 136 393     | 170 990     | 162 500     | 206 956     | 182 772     |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 19 639      | 25 056      | 27 931      | 37 447      | 36 934      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-004

Table 13

QUALITY DATA \* FOR WESTERN CANADIAN CANOLA/RAPESEED, SURVEY SAMPLES OF 1980 AND 1981 CROPS

|                            | 1980 SURVEY              |                                     |                              | 1981 SURVEY              |                                     |                              |
|----------------------------|--------------------------|-------------------------------------|------------------------------|--------------------------|-------------------------------------|------------------------------|
|                            | Oil <u>1/</u><br>Content | Erucic <u>2/</u><br>Acid<br>Content | Protein <u>3/</u><br>Content | Oil <u>1/</u><br>Content | Erucic <u>2/</u><br>Acid<br>Content | Protein <u>3/</u><br>Content |
| WESTERN CANADA             |                          |                                     |                              |                          |                                     |                              |
| All Grades                 | 43.0                     | 1.1                                 | 38.2                         | 41.4                     | 1.0                                 | 40.2                         |
| ALL GRADES BY<br>PROVINCES |                          |                                     |                              |                          |                                     |                              |
| Manitoba                   | 42.6                     | 0.3                                 | 40.2                         | 40.6                     | 0.5                                 | 41.6                         |
| Saskatchewan               | 43.7                     | 0.7                                 | 38.8                         | 42.1                     | 0.8                                 | 40.3                         |
| Alberta                    | 42.5                     | 1.6                                 | 37.1                         | 41.5                     | 1.6                                 | 39.7                         |

1/ Oil content of seed is reported on a 8.5% moisture basis.2/ Expressed as percent of total fatty acids in the oil.3/ Protein content is reported on the oil-free meal and an 8.5% moisture basis.

\* Data derived from composite of samples.

Source: Canadian Grain Commission,  
Grain Research Laboratory, Winnipeg



Table 14

SUMMERFALLOW AND STUBBLE CULTIVATION  
OF CANOLA/RAPESEED

| <u>Seeded Area</u> | <u>Summer-<br/>fallow</u> | <u>Stubble</u> | <u>Total</u> |
|--------------------|---------------------------|----------------|--------------|
|                    |                           | - hectares -   |              |
| 1977               | 978 146                   | 438 284        | 1 425 430    |
| 1978               | 1 809 389                 | 922 298        | 2 731 687    |
| 1979               | 2 029 000                 | 1 289 000      | 3 318 000    |
| 1980               | 1 429 000                 | 594 000        | 2 023 000    |
| 1981               | 867 000                   | 549 000        | 1 416 000    |

| <u>Distribution</u> |    | - per cent - |     |
|---------------------|----|--------------|-----|
| 1977                | 69 | 31           | 100 |
| 1978                | 66 | 34           | 100 |
| 1979                | 61 | 39           | 100 |
| 1980                | 71 | 29           | 100 |
| 1981                | 61 | 39           | 100 |

| <u>Average Yield Per<br/>Seeded Hectare</u> |       | - tonnes per hectare - |       |
|---|-------|------------------------|-------|
| 1977  | 1.451 | 1.171                  | 1.357 |
| 1978  | 1.306 | 1.138                  | 1.250 |
| 1979  | 1.063 | .984                   | 1.032 |
| 1980  | 1.288 | .987                   | 1.200 |
| 1981  | 1.328 | 1.124                  | 1.249 |

| <u>Production</u> |           | - tonnes - |           |
|-------------------|-----------|------------|-----------|
| 1977              | 1 422 027 | 512 565    | 1 934 592 |
| 1978              | 2 363 240 | 1 050 077  | 3 413 317 |
| 1979              | 2 156 000 | 1 269 000  | 3 425 000 |
| 1980              | 1 841 000 | 586 000    | 2 427 000 |
| 1981              | 1 151 000 | 617 000    | 1 768 000 |

Source: Statistics Canada, Catalogue No. 22-002

Table 15

CANOLA/RAPESEED VARIETIES, AREA SEEDED AND PERCENTAGE OF  
EACH VARIETY BY PRAIRIE PROVINCES - 1981

| VARIETY | MANITOBA |                      | SASKATCHEWAN |                      | ALBERTA |                      | PRAIRIES |                      |
|---------|----------|----------------------|--------------|----------------------|---------|----------------------|----------|----------------------|
|         | %        | Hectares<br>( '000s) | %            | Hectares<br>( '000s) | %       | Hectares<br>( '000s) | %        | Hectares<br>( '000s) |
| Altex*  | 8.4      | 22.1                 | 17.9         | 94.2                 | 29.7    | 186.2                | 21.5     | 311.3                |
| Candle* | 8.4      | 22.1                 | 20.8         | 109.4                | 45.6    | 285.9                | 29.8     | 431.5                |
| Midas   | -        | -                    | 4.0          | 21.0                 | 0.4     | 2.5                  | 1.6      | 23.2                 |
| Regent* | 57.5     | 151.2                | 38.5         | 202.5                | 5.3     | 33.2                 | 27.0     | 391.0                |
| Torch   | 8.5      | 22.4                 | 7.2          | 37.9                 | 11.1    | 69.6                 | 9.2      | 133.2                |
| Tower*  | 15.1     | 39.7                 | 8.2          | 43.1                 | 6.8     | 42.6                 | 8.8      | 127.4                |
| R-500   | -        | -                    | 2.0          | 10.5                 | -       | -                    | 0.7      | 10.1                 |
| Others  | 2.1      | 5.5                  | 1.4          | 7.4                  | 1.1     | 6.9                  | 1.4      | 20.3                 |
|         | 100.0    | 263.0                | 100.0        | 526.0                | 100.0   | 627.0                | 100.0    | 1,448.0              |

\* Varieties designated "Canola"

Source: Grain Research Laboratory, Canadian Grain Commission, Winnipeg

Table 16

CANADIAN CANOLA/RAPESEED PRICES<sup>1/</sup>

(Crop Year)

| <u>M O N T H</u> | <u>1976/77</u>         | <u>1977/78</u>       | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> |
|------------------|------------------------|----------------------|----------------|----------------|----------------|
|                  | .....\$ per tonne..... |                      |                |                |                |
| August           | 232.37                 | 264.20               | 295.93         | 333.57         | 306.82         |
| September        | 246.03                 | 277.56               | 313.04         | 333.50         | 307.58         |
| October          | 226.19                 | 285.45               | 310.50         | 318.17         | 325.36         |
| November         | 255.73                 | 285.45               | 315.21         | 318.32         | 358.35         |
| December         | 242.07                 | 270.59               | 315.14         | 309.80         | 335.05         |
| January          | 254.85                 | 281.31               | 314.86         | 308.23         | 338.48         |
| February         | 347.44                 | 292.15               | 337.94         | 310.07         | 330.39         |
| March            | 313.94                 | 318.50               | 327.87         | 291.46         | 328.19         |
| April            | 365.08                 | 337.45 <sup>2/</sup> | 303.91         | 264.15         | 336.50         |
| May              | 369.05                 | 340.97               | 309.97         | 292.13         | 339.05         |
| June             | 334.88                 | 323.90               | 322.12         | 312.25         | 334.26         |
| July             | <u>279.98</u>          | <u>287.16</u>        | <u>326.76</u>  | <u>317.53</u>  | <u>333.73</u>  |
| YEARLY AVERAGE   | <u>288.80</u>          | <u>298.06</u>        | <u>316.03</u>  | <u>309.10</u>  | <u>331.15</u>  |

<sup>1/</sup> Winnipeg Grain Exchange  
No. 1 Canadian Rapeseed,  
basis in-store Thunder Bay,  
\$/tonne.

<sup>2/</sup> As of April 1, 1978, basis  
in-store Vancouver, \$/tonne.

Source: Statistics Canada, Catalogue No. 22-007



CHAPTER 4

THE CANADIAN SOYBEAN SITUATION

Supply and Disposition - Soybeans

In crop year 1980/81, soybean production increased to a record 713 200 tonnes. Imports declined slightly and exports, mainly of food-grade soybeans, expanded to 141 959 tonnes. The domestic crush volume was virtually unchanged at 929 700 tonnes.

Soybean Oil

Production of soybean oil increased marginally in crop year 1980/81 to 158 900 tonnes. Imports of soybean oil declined, reflecting increased use and competition from Canola oil. Exports of soybean oil increased to 18 700 tonnes.

Soybean Meal

Soy meal imports were reduced in 1980/81 while exports increased. To some degree, this is a result of the increased use of Canola meal in Eastern Canada.

Table 17

CANADIAN SUPPLY AND DISPOSITION OF SOYBEANS,  
SOYBEAN OIL AND SOYBEAN MEAL  
 (Crop Year)

| <u>SOYBEANS</u>        | <u>1976/77</u> | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> |
|------------------------|----------------|----------------|----------------|----------------|----------------|
|                        | (Tonnes)       |                |                |                |                |
| Production             | 250 384        | 580 000        | 515 600        | 671 000        | 713 200        |
| Imports                | 391 608        | 262 835        | 350 400        | 422 000        | 394 676        |
| Exports                | 24 820         | 64 173         | 90 900         | 54 000         | 141 959        |
| Domestic<br>Crushings  | 684 995        | 728 400        | 742 600        | 938 400        | 929 700        |
| <u>SOYBEAN OIL</u>     |                |                |                |                |                |
| Imports                | 26 704         | 28 100         | 26 100         | 29 100         | 7 600          |
| Exports                | --             | 1 400          | 1 800          | 9 000          | 18 700         |
| Domestic<br>Production | 115 616        | 125 600        | 129 000        | 157 000        | 158 900        |
| <u>SOYBEAN MEAL</u>    |                |                |                |                |                |
| Imports                | 339 244        | 376 300        | 480 300        | 439 100        | 368 700        |
| Exports                | 51 333         | 45 600         | 41 300         | 42 700         | 74 100         |
| Domestic<br>Production | 540 689        | 575 400        | 576 700        | 738 300        | 731 700        |

Source: Statistics Canada, Catalogue Nos. 22-006, 22-007

Table 18

CANADIAN EXPORTS OF SOYBEANS

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>    |
|-------------------------|---------------|---------------|---------------|---------------|----------------|
| France                  | 75            | 8 749         | 195           | 331           | 108            |
| Hong Kong               | 6 502         | 14 291        | 8 876         | 11 893        | 13 328         |
| Hungary                 | 3             | --            | --            | --            | 5              |
| Ireland                 | --            | --            | --            | 3 750         | --             |
| Japan                   | 10 976        | 34 940        | 6 498         | 20 848        | 49 360         |
| Korea, South            | --            | --            | --            | 320           | 687            |
| Malaysia                | 227           | 1 744         | 394           | 1 481         | 2 222          |
| Netherlands             | 3 941         | 5 463         | 609           | 361           | 1 042          |
| Singapore               | 2 950         | 13 027        | 26 416        | 27 543        | 13 162         |
| Spain                   | 8 885         | --            | --            | --            | 18             |
| Taiwan                  | 397           | --            | --            | --            | --             |
| United Kingdom          | 246           | --            | --            | --            | --             |
| United States           | 94            | 30            | 593           | 6 585         | 8 880          |
| U.S.S.R.                | --            | --            | --            | 19 309        | 27 025         |
| Other Countries         | <u>3 541</u>  | <u>5 826</u>  | <u>4 338</u>  | <u>3 333</u>  | <u>4 147</u>   |
| TOTAL                   | <u>37 837</u> | <u>84 152</u> | <u>46 919</u> | <u>95 754</u> | <u>119 984</u> |
| TOTAL VALUE<br>(\$'000) | <u>11 047</u> | <u>24 375</u> | <u>14 869</u> | <u>35 007</u> | <u>46 191</u>  |

Source: Statistics Canada, Catalogue No. 65-004

Table 19

CANADIAN IMPORTS OF SOYBEANS AND SOYBEAN OIL

(Tonnes)

SOYBEANS

| <u>Country of Origin</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Chile                         | --          | --          | 4           | --          | --          |
| Hong Kong                     | 6           | 17          | 44          | 51          | 75          |
| Japan                         | 8           | --          | --          | --          | 7           |
| People's Republic<br>of China | 9           | 57          | 51          | 22          | --          |
| Singapore                     | 4           | 2           | 2           | --          | --          |
| United Kingdom                | 8           | --          | --          | --          | --          |
| United States                 | 317 935     | 324 369     | 350 991     | 476 996     | 373 880     |
| TOTAL                         | 317 970     | 324 445     | 351 092     | 477 071     | 373 962     |
| TOTAL VALUE<br>(\$'000)       | 98 953      | 91 245      | 107 807     | 141 901     | 115 000     |

SOYBEAN OIL

Country of Origin

|                         |        |        |        |        |       |
|-------------------------|--------|--------|--------|--------|-------|
| United States           | 28 138 | 28 069 | 22 234 | 12 139 | 4 294 |
| TOTAL                   | 28 138 | 28 069 | 22 234 | 12 139 | 4 294 |
| TOTAL VALUE<br>(\$'000) | 17 216 | 19 070 | 16 710 | 8 548  | 2 926 |

Source: Statistics Canada, Catalogue No. 65-007



Table 20

## IMPORTS OF SOYBEAN OIL BY PROVINCE

|                  | 1 9 7 7       | 1 9 7 8 | 1 9 7 9       | 1 9 8 0 | 1 9 8 1       |
|------------------|---------------|---------|---------------|---------|---------------|
|                  | '000<br>of \$ | Tonnes  | '000<br>of \$ | Tonnes  | '000<br>of \$ |
| Nova Scotia      | --            | --      | 1             | --      | 37            |
| New Brunswick    | 1 199         | 1 773   | 1 163         | 1 196   | 837           |
| Quebec           | 436           | 936     | 205           | 454     | 92            |
| Ontario          | 16 367        | 14 796  | 11 916        | 2 343   | 335           |
| Manitoba         | 4 160         | 2 191   | 2 285         | 2 577   | 839           |
| Saskatchewan     | 490           | 264     | 104           | 262     | --            |
| Alberta          | 3 246         | 1 896   | 5 489         | 3 985   | 1 596         |
| British Columbia | 2 238         | 1 468   | 2 355         | 1 322   | 558           |
| TOTAL            | 28 137        | 17 216  | 28 069        | 12 139  | 4 294         |

1/ Less than \$1,000

Source: Statistics Canada, Unpublished Data

Table 21

## IMPORTS OF SOYBEAN MEAL BY PROVINCE

|                  | 1 9 7 7       |                       | 1 9 7 8       |                       | 1 9 7 9       |                       | 1 9 8 0       |                       | 1 9 8 1       |                       |
|------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|
|                  | <u>Tonnes</u> | <u>'000<br/>of \$</u> | <u>Tonnes</u> | <u>'000<br/>of \$</u> | <u>Tonnes</u> | <u>'000<br/>of \$</u> | <u>Tonnes</u> | <u>'000<br/>of \$</u> | <u>Tonnes</u> | <u>'000<br/>of \$</u> |
| Nova Scotia      | 2 913         | 679                   | 130           | 32                    | 64            | 58                    | 23            | 5                     | 156           | 48                    |
| New Brunswick    | 7 797         | 2 418                 | 9 729         | 2 998                 | 11 401        | 3 981                 | 5 881         | 2 053                 | 3 039         | 1 244                 |
| Quebec           | 99 456        | 26 329                | 103 390       | 28 260                | 101 246       | 30 393                | 60 437        | 17 675                | 49 977        | 15 455                |
| Ontario          | 84 149        | 21 713                | 114 857       | 28 222                | 153 275       | 43 402                | 139 072       | 39 083                | 148 543       | 45 935                |
| Manitoba         | 68 543        | 16 507                | 86 357        | 19 517                | 95 377        | 24 942                | 94 145        | 25 165                | 90 873        | 26 453                |
| Saskatchewan     | 20 127        | 5 235                 | 20 806        | 5 022                 | 33 915        | 9 776                 | 25 640        | 7 706                 | 56 917        | 17 264                |
| Alberta          | 38 634        | 9 564                 | 46 306        | 11 501                | 49 976        | 13 168                | 47 224        | 12 621                | 22 499        | 6 694                 |
| British Columbia | 29 681        | 7 861                 | 31 083        | 7 501                 | 19 303        | 5 563                 | 31 216        | 8 694                 | 17 756        | 6 426                 |
| TOTAL            | 351 300       | 90 306                | 412 658       | 103 053               | 464 557       | 131 283               | 403 638       | 113 003               | 389 762       | 119 518               |

Source: Statistics Canada, Unpublished Data

Table 22

CANADIAN EXPORTS OF SOYBEAN OIL AND MEAL  
(Tonnes)

SOYBEAN OIL

| <u>Destination</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Morocco                 | --          | --          | 2 911       | 11 640      | 2 980       |
| Netherlands             | --          | 1 406       | 3 004       | 2 401       | 2 542       |
| United Kingdom          | --          | --          | 787         | --          | --          |
| United States           | 23          | --          | 6           | 63          | 5 399       |
| Venezuela               | --          | --          | 2 916       | --          | --          |
| Other Countries         | --          | --          | --          | 36          | 6           |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 23          | 1 406       | 9 626       | 14 140      | 10 927      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 12          | 742         | 6 996       | 9 772       | 6 921       |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

SOYBEAN MEAL

Destination

|                         |        |        |        |        |        |
|-------------------------|--------|--------|--------|--------|--------|
| Cuba                    | --     | --     | --     | 25 946 | 24 359 |
| Denmark                 | 6 749  | 2 956  | --     | 4 609  | --     |
| Germany, West           | 3 790  | --     | --     | --     | --     |
| Hong Kong               | --     | 800    | 163    | 109    | --     |
| Ireland                 | --     | --     | --     | 20 186 | 11 066 |
| Netherlands             | --     | 1 001  | --     | --     | --     |
| United Kingdom          | 34 333 | 41 929 | 21 581 | 24 052 | 12 741 |
| United States           | 718    | 1 622  | 853    | 3 411  | 2 499  |
|                         | <hr/>  | <hr/>  | <hr/>  | <hr/>  | <hr/>  |
| TOTAL                   | 45 589 | 48 308 | 22 951 | 78 313 | 50 667 |
|                         | <hr/>  | <hr/>  | <hr/>  | <hr/>  | <hr/>  |
| TOTAL VALUE<br>(\$'000) | 10 747 | 12 436 | 6 776  | 25 588 | 18 103 |
|                         | <hr/>  | <hr/>  | <hr/>  | <hr/>  | <hr/>  |

Table 23

CANADIAN SOYBEAN PRICES <sup>1/</sup>

(Crop Year)

| <u>M O N T H</u> | <u>1976/77</u>           | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> |
|------------------|--------------------------|----------------|----------------|----------------|----------------|
|                  | ..... \$ per tonne ..... |                |                |                |                |
| August           | 211.96                   | 207.49         | 257.86         | 292.65         | 293.57         |
| September        | 227.76                   | 186.63         | 250.90         | 290.22         | 317.98         |
| October          | 211.09                   | 197.44         | 273.58         | 263.02         | 319.01         |
| November         | 221.38                   | 197.43         | 270.43         | 255.38         | 347.64         |
| December         | 243.97                   | 215.75         | 276.95         | 255.24         | 313.15         |
| January          | 248.43                   | 209.95         | 277.73         | 233.64         | 305.20         |
| February         | 260.69                   | 205.98         | 303.40         | 247.84         | 297.05         |
| March            | 304.65                   | 243.13         | 306.70         | 233.05         | 290.76         |
| April            | 344.51                   | 259.88         | 297.29         | 228.91         | 306.49         |
| May              | 347.45                   | 273.40         | 295.20         | 238.93         | 304.08         |
| June             | 298.82                   | 266.61         | 321.21         | 242.56         | 291.22         |
| July             | 224.82                   | 256.72         | 308.36         | 285.61         | 287.99         |
| YEARLY AVERAGE   | <u>262.25</u>            | <u>226.98</u>  | <u>286.83</u>  | <u>255.59</u>  | <u>306.18</u>  |

<sup>1/</sup> Ontario soybean, No. 2. Ontario Ministry of Agriculture and Food, Producers Price.

Source: Statistics Canada, Catalogue No. 22-007



CHAPTER 5

THE CANADIAN FLAXSEED SITUATION

Production

In crop year 1980/81, production of flaxseed declined by over 40 per cent, reflecting larger carry-in stocks from the previous year. Large production swings from year to year are not unusual for this crop, as can be seen from a comparison of flaxseed production over the past five crop years.

Exports - Seed, Oil and Meal

Flaxseed exports show no particular trend although crop year 1980/81 saw the largest volume exported since 1971/72. The main importing countries are West Germany, the United States, Japan and the Netherlands.

Linseed oil was exported in fair volume during 1981 to the Netherlands and Switzerland, while linseed meal found markets in West Germany, the United States and Trinidad-Tobago.

Table 24

CANADIAN SUPPLY AND DISPOSITION OF FLAXSEED,

LINSEED OIL AND LINSEED MEAL

(Crop Year)

| <u>FLAXSEED</u>                | <u>1976/77</u>  | <u>1977/78</u>  | <u>1978/79</u>  | <u>1979/80</u>  | <u>1980/81</u>  |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                | (Tonnes)        |                 |                 |                 |                 |
| Stocks, Starting <sup>1/</sup> | 380 640         | 280 400         | 470 000         | 391 600         | 587 300         |
| Production                     | 276 875         | 402 400         | 571 500         | 815 400         | 464 800         |
| Imports                        | <u>3/</u>       | <u>3/</u>       | 98              | --              | --              |
| Exports                        | 332 708         | 337 500         | 538 369         | 448 800         | 562 800         |
| Domestic<br>Crushings          | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> |
| <u>LINSEED OIL</u>             |                 |                 |                 |                 |                 |
| Exports                        | 4 525           | 4 597           | 7 146           | 4 744           | 7 895           |
| Domestic<br>Production         | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> |
| <u>LINSEED MEAL</u>            |                 |                 |                 |                 |                 |
| Exports                        | 3 679           | 2 015           | 5 064           | 8 012           | 12 187          |
| Domestic<br>Production         | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> | x <sup>2/</sup> |

<sup>1/</sup> Total stocks in all positions.

<sup>2/</sup> Confidential - to meet secrecy requirements of the Statistics Act.

<sup>3/</sup> Less than one tonne.

Source: Statistics Canada, Catalogue No. 22-007, and unpublished data.

Table 25

CANADIAN EXPORTS OF FLAXSEED

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Australia               | --          | --          | --          | --          | 5 176       |
| Austria                 | --          | --          | 10          | --          | --          |
| Belgium-Luxembourg      | 11 658      | 20 209      | 9 215       | 11 919      | 12 828      |
| Czechoslovakia          | 5 836       | --          | 3 001       | 20 638      | 10 419      |
| Denmark                 | 614         | 3 849       | 2 500       | 699         | --          |
| France                  | 6 722       | 17 427      | 14 168      | 2 140       | 5 058       |
| Germany, West           | 117 479     | 140 737     | 161 056     | 119 604     | 170 832     |
| Greece                  | --          | --          | 3 055       | 5 819       | --          |
| Hong Kong               | --          | --          | --          | --          | 5           |
| Italy                   | --          | --          | 1 915       | 1 526       | --          |
| Japan                   | 78 984      | 100 863     | 99 424      | 107 357     | 101 137     |
| Korea, North            | 269         | --          | --          | --          | --          |
| Korea, South            | 3 373       | 3 934       | 5 351       | --          | --          |
| Mexico                  | --          | --          | --          | 17 000      | 16 348      |
| Netherlands             | 25 799      | 74 800      | 111 472     | 52 058      | 89 687      |
| Spain                   | 11 315      | 4 329       | 6 761       | 2 573       | 4 093       |
| Sweden                  | 2 279       | 206         | 208         | 852         | 421         |
| Switzerland             | 9 020       | 1 118       | 8 961       | 13 630      | 17 194      |
| Taiwan                  | 911         | 6 217       | 180         | 1 165       | 297         |
| United Kingdom          | 13 892      | 11 724      | 33 942      | 11 330      | 38 097      |
| United States           | 41 107      | 23 427      | 50 929      | 33 625      | 127 906     |
| U.S.S.R.                | --          | --          | 22 677      | --          | --          |
| Venezuela               | --          | --          | --          | --          | 16          |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 329 366     | 409 417     | 534 825     | 401 935     | 599 515     |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 93 538      | 102 424     | 168 788     | 137 267     | 226 386     |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-004.

Table 26

CANADIAN IMPORTS OF FLAXSEED

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| United States            | 51          | 26          | 98          | 459         | 65          |
| Other Countries          | <u>18</u>   | <u>--</u>   | <u>--</u>   | <u>5</u>    | <u>--</u>   |
| TOTAL                    | <u>69</u>   | <u>26</u>   | <u>98</u>   | <u>464</u>  | <u>65</u>   |
| TOTAL VALUE<br>(\$'000)  | <u>45</u>   | <u>10</u>   | <u>42</u>   | <u>150</u>  | <u>35</u>   |

Source: Statistics Canada, Catalogue No. 65-007



Table 27

CANADIAN EXPORTS OF LINSEED OIL

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Belgium-Luxembourg      | 1 717       | 1 811       | --          | --          | --          |
| Netherlands             | 1 724       | 1 524       | 3 468       | 3 716       | 7 967       |
| Switzerland             | --          | --          | 1 007       | --          | 4 419       |
| United Kingdom          | 2 241       | 2 944       | --          | --          | --          |
| United States           | 27          | 29          | 141         | --          | 24          |
| Venezuela               | 7           | 20          | 1           | 11          | 9           |
| Other Countries         | 1           | --          | 33          | 36          | 8           |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 5 717       | 8 099       | 4 650       | 3 763       | 12 427      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 2 786       | 3 390       | 2 929       | 2 694       | 9 465       |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-004

Table 28

CANADIAN EXPORTS OF LINSEED CAKE AND MEAL

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>   |
|-------------------------|--------------|--------------|--------------|--------------|---------------|
| Germany, West           | --           | --           | --           | 3 719        | 11 281        |
| Netherlands             | 3 201        | 3 187        | 2 785        | 3 766        | --            |
| Trinidad-Tobago         | 91           | 26           | 18           | --           | 17            |
| United States           | <u>1 430</u> | <u>2 370</u> | <u>1 715</u> | <u>1 278</u> | <u>1 170</u>  |
| TOTAL                   | <u>4 726</u> | <u>5 583</u> | <u>4 518</u> | <u>8 763</u> | <u>12 468</u> |
| TOTAL VALUE<br>(\$'000) | <u>741</u>   | <u>1 087</u> | <u>1 029</u> | <u>2 162</u> | <u>3 014</u>  |

Source: Statistics Canada, Catalogue No. 65-004

Table 29

## QUALITY DATA FOR WESTERN CANADIAN FLAXSEED, SURVEY SAMPLES OF 1979, 1980 AND 1981 CROPS

|                | Oil Content <sup>1/</sup> |      |      | Iodine Value<br>(Wijs Units) |      |      | Protein Content <sup>2/</sup> |      |      | No. of Samples |      |      |
|----------------|---------------------------|------|------|------------------------------|------|------|-------------------------------|------|------|----------------|------|------|
|                | 1979                      | 1980 | 1981 | 1979                         | 1980 | 1981 | 1979                          | 1980 | 1981 | 1979           | 1980 | 1981 |
| WESTERN CANADA |                           |      |      |                              |      |      |                               |      |      |                |      |      |
| No. 1 CW       | 43.1                      | 43.0 | 41.2 | 195                          | 197  | 192  | 42.6                          | 40.4 | 41.1 | 115            | 244  | 515  |
| ALL GRADES     | 1979                      | 1980 | 1981 | 1979                         | 1980 | 1981 | 1979                          | 1980 | 1981 | 1979           | 1980 | 1981 |
| Manitoba       | 43.0                      | 42.4 | 40.8 | 196                          | 197  | 191  | 41.9                          | 39.8 | 41.6 | 32             | 135  | 225  |
| Saskatchewan   | 42.9                      | 43.3 | 41.2 | 196                          | 197  | 192  | 42.0                          | 40.6 | 40.6 | 89             | 95   | 189  |
| Alberta        | 43.0                      | 42.4 | 40.8 | 193                          | 199  | 191  | 43.0                          | 39.6 | 41.3 | 18             | 53   | 111  |
| Prairies       | 42.9                      | 42.7 | 41.2 | 195                          | 197  | 192  | 42.1                          | 40.0 | 41.0 | 139            | 283  | 525  |

<sup>1/</sup> Oil content of seed is reported on moisture-free basis.

<sup>2/</sup> Protein content is reported on oil-free meal and moisture free basis, N times 6.25.

Source: Grain Research Laboratory,  
Canadian Grain Commission, Winnipeg.

Table 30

SUMMERFALLOW AND STUBBLE CULTIVATION OF FLAXSEED

| <u>Seeded Area</u>   | <u>Summer-<br/>fallow</u>  | <u>Stubble</u> | <u>Total</u> |
|----------------------|----------------------------|----------------|--------------|
|                      | <u>- hectares -</u>        |                |              |
| 1977                 | 241 198                    | 333 468        | 574 666      |
| 1978                 | 180 089                    | 337 920        | 518 009      |
| 1979                 | 322 000                    | 609 000        | 931 000      |
| 1980                 | 190 000                    | 385 000        | 575 000      |
| 1981                 | 121 000                    | 344 000        | 465 000      |
| <u>Distribution</u>  | <u>- per cent -</u>        |                |              |
| 1977                 | 42                         | 58             | 100          |
| 1978                 | 35                         | 65             | 100          |
| 1979                 | 35                         | 65             | 100          |
| 1980                 | 33                         | 67             | 100          |
| 1981                 | 26                         | 74             | 100          |
| <u>Average Yield</u> | <u>- kg. per hectare -</u> |                |              |
| 1977                 | 1 201                      | 962            | 1 063        |
| 1978                 | 1 232                      | 1 000          | 1 082        |
| 1979                 | 957                        | 833            | 875          |
| 1980                 | 1 058                      | 686            | 809          |
| 1981                 | 1 256                      | 945            | 1 026        |
| <u>Production</u>    | <u>- tonnes -</u>          |                |              |
| 1977                 | 289 575                    | 320 056        | 609 632      |
| 1978                 | 220 992                    | 337 837        | 558 820      |
| 1979                 | 308 000                    | 507 000        | 815 000      |
| 1980                 | 201 000                    | 264 000        | 465 000      |
| 1981                 | 152 000                    | 325 000        | 477 000      |

Source: Statistics Canada, Catalogue No. 22-002



Table 31

FLAXSEED VARIETIES, AREA SEEDED AND PERCENTAGE OF  
EACH VARIETY BY PRAIRIE PROVINCES - 1981

| VARIETY    | MANITOBA |                      | SASKATCHEWAN |                      | ALBERTA |                      | PRAIRIES |                      |
|------------|----------|----------------------|--------------|----------------------|---------|----------------------|----------|----------------------|
|            | %        | Hectares<br>( '000s) | %            | Hectares<br>( '000s) | %       | Hectares<br>( '000s) | %        | Hectares<br>( '000s) |
| Culbert    | 12.4     | 35.1                 | -            | -                    | -       | -                    | 7.6      | 35.3                 |
| Dufferin   | 49.7     | 140.7                | 53.1         | 75.4                 | 7.2     | 2.9                  | 47.0     | 218.6                |
| Linott     | 28.8     | 81.5                 | 8.8          | 12.5                 | 2.0     | 0.8                  | 20.4     | 94.9                 |
| Noralta    | 3.0      | 8.5                  | 26.4         | 37.5                 | 52.9    | 21.2                 | 14.5     | 67.4                 |
| Norland    | -        | -                    | 3.5          | 5.0                  | -       | -                    | 1.1      | 5.1                  |
| Paja       | 1.7      | 4.8                  | 2.1          | 3.0                  | 5.3     | 2.1                  | 2.1      | 9.8                  |
| Redwood 65 | 3.6      | 10.2                 | 5.5          | 7.8                  | 31.6    | 12.6                 | 6.6      | 30.7                 |
| Others     | 0.8      | 2.3                  | 0.6          | 0.9                  | 1.0     | 0.4                  | 0.7      | 3.3                  |
| TOTAL      | 100.0    | 283.0                | 100.0        | 142.0                | 100.0   | 40.0                 | 100.0    | 465.0                |

Table 32

CANADIAN FLAXSEED PRICES <sup>1/</sup>

(Crop Year)

| <u>M O N T H</u> | <u>1976/77</u>           | <u>1977/78</u> | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> |
|------------------|--------------------------|----------------|----------------|----------------|----------------|
|                  | ..... \$ per tonne ..... |                |                |                |                |
| August           | 281.18                   | 213.77         | 238.10         | 346.23         | 363.91         |
| September        | 282.56                   | 218.30         | 251.94         | 361.05         | 373.27         |
| October          | 274.94                   | 220.15         | 270.36         | 355.95         | 374.53         |
| November         | 265.83                   | 218.34         | 268.93         | 334.45         | 413.13         |
| December         | 262.38                   | 209.83         | 271.14         | 304.83         | 400.31         |
| January          | 273.85                   | 205.30         | 297.52         | 310.48         | 382.18         |
| February         | 281.83                   | 209.44         | 345.26         | 320.49         | 361.79         |
| March            | 291.52                   | 230.74         | 339.31         | 310.49         | 361.14         |
| April            | 333.10                   | 249.53         | 329.39         | 287.28         | 379.60         |
| May              | 302.69                   | 258.84         | 324.66         | 309.76         | 387.43         |
| June             | 219.62                   | 249.81         | 352.18         | 329.20         | 369.74         |
| July             | <u>242.61</u>            | <u>231.02</u>  | <u>355.84</u>  | <u>377.20</u>  | <u>365.93</u>  |
| YEARLY AVERAGE   | <u>274.31</u>            | <u>225.97</u>  | <u>303.72</u>  | <u>328.95</u>  | <u>377.75</u>  |

<sup>1/</sup> Winnipeg Grain Exchange No. 1 CW  
Flaxseed Basis Thunder Bay

Source: Statistics Canada, Catalogue No. 22-007

## CHAPTER 6

### THE CANADIAN SUNFLOWERSEED SITUATION

#### Production

The area, yield and production data is given for crop year 1981/82 and 1980/81. Production increased slightly in 1981/82 to 174 800 tonnes from 166 100 the previous year. Area was reduced but yields were higher in 1981.

#### Exports - Seed

Sunflowerseed exports in 1981 reached 100 047 tonnes, up slightly from 1980. West Europe and the United States were the principal market outlets.

#### Imports - Oil

Sunflowerseed oil imports amounted to only 63 tonnes in 1981, valued at \$71,000, with the United States as sole supplier.

Table 33

CANADIAN SUNFLOWERSEED: ACREAGE, YIELD AND PRODUCTION

(Crop Year)

|                  | <u>1977/78</u>                       | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> | <u>1981/82</u> |
|------------------|--------------------------------------|----------------|----------------|----------------|----------------|
|                  | <u>- Hectares -</u>                  |                |                |                |                |
| Manitoba         | 66 775                               | 82 153         | 154 000        | 129 000        | 117 000        |
| Saskatchewan     | --                                   | 4 452          | 7 300          | 7 300          | 4 000          |
| Alberta          | --                                   | --             | --             | --             | --             |
| Canada - TOTAL   | 66 775                               | 86 605         | 161 300        | 136 300        | 121 000        |
|                  | <u>- Yield - Kilograms/Hectare -</u> |                |                |                |                |
| Manitoba         | 1 188                                | 1 325          | 1 355          | 1 231          | 1 462          |
| Saskatchewan     | --                                   | 1 120          | 1 247          | 1 000          | 950            |
| Alberta          | --                                   | --             | --             | --             | --             |
| Canada - AVERAGE | 1 188                                | 1 314          | 1 350          | 1 219          | 1 445          |
|                  | <u>- Production - Tonnes -</u>       |                |                |                |                |
| Manitoba         | 79 379                               | 108 863        | 208 700        | 158 800        | 171 000        |
| Saskatchewan     | --                                   | 4 990          | 9 100          | 7 300          | 3 800          |
| Alberta          | --                                   | --             | --             | --             | --             |
| Canada - TOTAL   | 79 379                               | 113 853        | 217 800        | 166 100        | 174 800        |

Source: Statistics Canada, Catalogue No. 22-002



Table 34

CANADIAN EXPORTS OF SUNFLOWERSEED

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Australia               | 15          | 37          | 44          | 33          | --          |
| Belgium-Luxembourg      | --          | --          | --          | 5 351       | 108         |
| Czechoslovakia          | 6 998       | --          | --          | --          | --          |
| Germany, West           | 344         | 43 607      | 59 553      | 33 912      | 28 427      |
| Mexico                  | --          | --          | --          | 3 488       | --          |
| Netherlands             | 14 284      | 17 999      | 5 380       | 13 878      | 15 282      |
| Portugal                | --          | --          | --          | 8 651       | 14 851      |
| Spain                   | --          | 40          | 3 458       | --          | 1 094       |
| Panama                  | --          | --          | --          | 4 080       | --          |
| Sweden                  | 5           | 72          | 75          | 283         | 1 095       |
| United Kingdom          | 19          | 340         | 8 069       | 7 566       | 29          |
| United States           | 2 949       | 3 913       | 12 236      | 17 703      | 35 348      |
| Other Countries         | 1 489       | 16          | 417         | 938         | 3 813       |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 26 103      | 74 119      | 89 231      | 95 793      | 100 047     |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 6 225       | 21 675      | 25 757      | 28 379      | 33 063      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-004

Table 35

CANADIAN IMPORTS OF SUNFLOWERSEED OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| United States            | 59            | 164           | 458           | 29            | 63            |
| Other Countries          | --            | 7             | 2             | 2             | --            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL                    | 59            | 171           | 460           | 31            | 63            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL VALUE<br>(\$'000)  | 43            | 136           | 343           | 29            | 71            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 7

THE CANADIAN MUSTARDSEED SITUATION

Production

Statistics Canada data for 1980/81 and 1981/82 crop years is shown for area, yield and production of mustardseed. All three - area, yield, production - increased in 1981 over the previous year. This crop is grown to a large extent under contract.

Trade

Mustardseed was exported to 13 countries in 1981. Exports amounted to 71 319 tonnes valued at \$27 million, up slightly from 1980.

Imports into Canada of ground mustard declined to 224 tonnes, valued at \$975,000. The United Kingdom was the principal supplier of this commodity in 1981.

Table 36

CANADIAN MUSTARDSEED: ACREAGE, YIELD AND PRODUCTION  
(Crop Year)

|                  | <u>1977/78</u>                       | <u>1978/79</u> | <u>1979/80</u> | <u>1980/81</u> | <u>1981/82</u> |
|------------------|--------------------------------------|----------------|----------------|----------------|----------------|
|                  | <u>- Hectares -</u>                  |                |                |                |                |
| Manitoba         | 16 188                               | 25 091         | 10 000         | 18 000         | 17 000         |
| Saskatchewan     | 40 469                               | 52 601         | 40 000         | 55 000         | 45 000         |
| Alberta          | 16 997                               | 20 234         | 14 000         | 20 000         | 14 000         |
| Canada - TOTAL   | 73 654                               | 97 936         | 64 000         | 93 000         | 76 000         |
|                  | <u>- Yield - Kilograms/Hectare -</u> |                |                |                |                |
| Manitoba         | 1 011                                | 1 159          | 950            | 906            | 1 012          |
| Saskatchewan     | 1 179                                | 959            | 670            | 891            | 1 029          |
| Alberta          | 910                                  | 1 191          | 971            | 1 270          | 1 357          |
| Canada - AVERAGE | 1 081                                | 1 056          | 780            | 975            | 1 086          |
|                  | <u>- Production - Tonnes -</u>       |                |                |                |                |
| Manitoba         | 16 329                               | 29 038         | 9 500          | 16 300         | 17 200         |
| Saskatchewan     | 47 627                               | 50 363         | 26 800         | 49 000         | 46 300         |
| Alberta          | 15 422                               | 24 047         | 13 600         | 25 400         | 19 000         |
| Canada - TOTAL   | 79 378                               | 103 448        | 49 900         | 90 700         | 82 500         |

Source: Statistics Canada, Catalogue No. 22-002

Table 37

CANADIAN EXPORTS OF MUSTARDSEED

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Australia               | 22          | 6           | 18          | 18          | 14          |
| Belgium-Luxembourg      | 435         | --          | 749         | 5 902       | 55          |
| Czechoslovakia          | --          | 308         | --          | --          | --          |
| Germany, West           | 2 157       | 7 622       | 6 169       | 8 189       | 8 373       |
| India                   | --          | 2 958       | 6 596       | --          | --          |
| Japan                   | 7 024       | 6 701       | 5 369       | 7 496       | 7 009       |
| Mexico                  | 196         | 429         | 449         | 180         | 305         |
| Netherlands             | 14 138      | 25 435      | 17 742      | 13 767      | 17 547      |
| Spain                   | --          | --          | 254         | 109         | 145         |
| Sweden                  | --          | 34          | 54          | 36          | 43          |
| Switzerland             | 1 108       | --          | --          | 150         | 822         |
| United Kingdom          | 18          | 171         | 151         | 68          | 67          |
| United States           | 31 312      | 29 378      | 29 080      | 29 932      | 36 310      |
| Venezuela               | --          | 32          | 53          | 57          | 36          |
| Other Countries         | 28          | 9           | 704         | 445         | 593         |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 56 438      | 73 339      | 67 388      | 66 350      | 71 319      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 19 660      | 25 208      | 21 757      | 22 765      | 27 032      |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-004



Table 38

CANADIAN IMPORTS OF GROUND MUSTARD

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>       | <u>1978</u>       | <u>1979</u>       | <u>1980</u>       | <u>1981</u>       |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Hong Kong                | <u>1/</u>         | --                | --                | <u>1/</u>         | 5                 |
| United Kingdom           | 241               | 220               | 221               | 353               | 199               |
| United States            | 98                | 43                | 27                | 16                | 17                |
| Other Countries          | 9                 | 20                | 19                | <u>1/</u>         | 3                 |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL                    | <u>349</u>        | <u>284</u>        | <u>267</u>        | <u>371</u>        | <u>224</u>        |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL VALUE<br>(\$'000)  | <u>548</u>        | <u>625</u>        | <u>779</u>        | <u>1 100</u>      | <u>975</u>        |

1/ Less than one tonne

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 8

SPECIFIED AND DEODORIZED FATS AND OILS

Canadian production of deodorized vegetable oils increased by 5 per cent in 1981. Canola oil production increased by 14 per cent over 1980. The production of all deodorized oils (vegetable, animal, marine) increased by 4.6 per cent to 467 029 tonnes. Data on certain individual oils continues to be unavailable due to confidentiality requirements.

Data is presented individually for the main oils imported and exported in 1981.

Footnotes to some tables are changed slightly from previous issues as necessitated by the availability or non-availability of official data for some products.

Table 39

## CANADIAN PRODUCTION OF DEODORIZED OILS

(Tonnes)

| Vegetable Oils                                  | 1 9 8 0       |                |           |         | 1 9 8 1       |                |           |         |
|---|---------------|----------------|-----------|---------|---------------|----------------|-----------|---------|
|   | Margarine Oil | Shortening Oil | Salad Oil | Total   | Margarine Oil | Shortening Oil | Salad Oil | Total   |
| Coconut   | x             | x              | x         | 12 597  | x             | x              | x         | 13 011  |
| Corn  | x             | x              | x         | 25 181  | x             | x              | x         | 25 000  |
| Cottonseed                                      | x             | x              | x         | x       | x             | x              | x         | x       |
| Palm  | x             | x              | x         | 16 074  | 3 590         | 10 296         | 27        | 13 913  |
| Peanut  | x             | x              | x         | x       | x             | x              | x         | 4 114   |
| Canola  | 38 654        | 65 531         | 79 084    | 183 269 | 46 036        | 72 806         | 90 365    | 209 207 |
| Soybean   | 61 093        | x              | x         | 124 841 | 62 918        | 44 836         | 13 236    | 120 990 |
| Sunflowerseed                                   | x             | x              | x         | 15 288  | x             | x              | x         | 16 791  |
| Other Vegetable                                 | x             | x              | x         | x       | x             | x              | x         | 9 365   |
| Total Vegetable Oils                            | 120 473       | 154 362        | 116 813   | 391 648 | 127 330       | 156 878        | 128 183   | 412 391 |
| Total Deodorized Oils<br>(Veg., animal, marine) | 122 985       | 206 599        | 116 813   | 446 397 | x             | x              | 128 183   | 467 029 |

x Confidential to meet secrecy requirements  
of the Statistics Act.

Source: Statistics Canada, Catalogue No. 32-006

Table 40

CANADIAN IMPORTS OF VEGETABLE OILS AND FATS (NES)

(Tonnes)

| <u>COUNTRY OF ORIGIN</u>      | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>   |
|-------------------------------|--------------|--------------|--------------|--------------|---------------|
| Austria                       | 2            | --           | --           | 1            | --            |
| Brazil                        | 15           | 60           | --           | --           | 18            |
| Denmark                       | 23           | 4            | 12           | --           | --            |
| France                        | 2            | 1            | 3            | 14           | 5             |
| Germany, West                 | 9            | 27           | 6            | 4            | 4             |
| Hong Kong                     | 47           | 66           | 70           | 157          | 73            |
| India                         | <u>1/</u>    | --           | --           | 96           | 1 096         |
| Japan                         | 98           | 74           | 90           | 89           | 150           |
| Lebanon                       | --           | --           | --           | --           | 9             |
| Netherlands                   | 1            | 20           | 8            | --           | 18            |
| Paraguay                      | --           | 14           | --           | --           | --            |
| People's Republic<br>of China | 19           | 15           | 4            | 2            | --            |
| Singapore                     | --           | --           | 3            | 4            | 5             |
| Switzerland                   | 6            | 2            | --           | 2            | 2             |
| United Kingdom                | 512          | 258          | 140          | 845          | 634           |
| United States                 | 1 528        | 2 690        | 1 706        | 2 829        | 2 677         |
| Yugoslavia                    | 8            | 22           | --           | 2            | 29            |
| TOTAL                         | <u>2 270</u> | <u>3 235</u> | <u>2 032</u> | <u>4 048</u> | <u>4 724</u>  |
| TOTAL VALUE<br>(\$'000)       | <u>3 111</u> | <u>3 823</u> | <u>3 290</u> | <u>7 924</u> | <u>11 713</u> |

1/ Less than one tonne

Table 41

CANADIAN IMPORTS OF COCOA BUTTER

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Belgium-Luxembourg       | --          | 35          | 222         | --          | --          |
| Brazil                   | 416         | 213         | 128         | 481         | 407         |
| Cuba                     | 75          | 72          | 163         | 100         | 50          |
| Ecuador                  | 180         | --          | 40          | --          | 25          |
| Germany, West            | 170         | 262         | 663         | 336         | 281         |
| Ivory Coast              | 178         | 231         | 108         | 234         | 296         |
| Jamaica                  | 10          | 10          | 15          | 31          | 15          |
| Mexico                   | --          | --          | --          | 202         | 331         |
| Netherlands              | 1 453       | 1 677       | 991         | 856         | 897         |
| Nigeria                  | --          | 100         | --          | --          | --          |
| United Kingdom           | 1 714       | 717         | 272         | 395         | 817         |
| United States            | 636         | 245         | 815         | 888         | 1 128       |
| Other Countries          | --          | --          | 78          | 194         | 258         |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                    | 4 835       | 3 562       | 3 495       | 3 717       | 4 505       |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000)  | 24 618      | 18 841      | 22 323      | 29 432      | 32 023      |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-007



Table 42

CANADIAN IMPORTS OF COCONUT OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Australia                | <u>1/</u>     | 359           | --            | --            | --            |
| Brazil                   | --            | --            | 299           | --            | --            |
| Jamaica                  | 3             | 2             | 4             | --            | 7             |
| Malaysia                 | 4 664         | 1 934         | 5 577         | 4 918         | 6 008         |
| Philippines              | 18 827        | 15 607        | 15 480        | 14 066        | 16 156        |
| Sri Lanka                | 156           | 2 785         | 2 475         | --            | --            |
| United Kingdom           | 1             | 3             | 2             | 14            | 307           |
| United States            | 567           | 1 623         | 1 872         | 946           | 588           |
| Other Countries          | --            | --            | 3             | 272           | 9             |
|                          | <hr/>         | <hr/>         | <hr/>         | <hr/>         | <hr/>         |
| TOTAL                    | <u>24 218</u> | <u>22 313</u> | <u>25 712</u> | <u>20 216</u> | <u>23 075</u> |
|                          | <hr/>         | <hr/>         | <hr/>         | <hr/>         | <hr/>         |
| TOTAL VALUE<br>(\$'000)  | <u>14 447</u> | <u>15 126</u> | <u>28 914</u> | <u>16 492</u> | <u>15 896</u> |

<sup>1/</sup> Less than one tonne

Source: Statistics Canada, Catalogue No. 65-007

Table 43

CANADIAN IMPORTS OF CORN OIL  
(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| United States            | <u>15 482</u> | <u>19 707</u> | <u>16 627</u> | <u>17 284</u> | <u>16 223</u> |
| TOTAL                    | <u>15 482</u> | <u>19 707</u> | <u>16 627</u> | <u>17 284</u> | <u>16 223</u> |
| TOTAL VALUE<br>(\$'000)  | <u>10 612</u> | <u>18 154</u> | <u>14 214</u> | <u>11 946</u> | <u>10 787</u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 44

CANADIAN IMPORTS OF COTTONSEED OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>  |
|--------------------------|--------------|--------------|--------------|--------------|--------------|
| United States            | <u>5 497</u> | <u>4 723</u> | <u>4 285</u> | <u>4 616</u> | <u>2 680</u> |
| TOTAL                    | <u>5 497</u> | <u>4 723</u> | <u>4 285</u> | <u>4 616</u> | <u>2 680</u> |
| TOTAL VALUE<br>(\$'000)  | <u>3 376</u> | <u>3 162</u> | <u>3 402</u> | <u>3 153</u> | <u>1 783</u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 45

CANADIAN IMPORTS OF OLIVE OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>  |
|--------------------------|--------------|--------------|--------------|--------------|--------------|
| France                   | 15           | 35           | 23           | 29           | 24           |
| Greece                   | 107          | 218          | 311          | 261          | 417          |
| Italy                    | 737          | 920          | 915          | 1 097        | 872          |
| Portugal                 | 155          | 162          | 169          | 106          | 112          |
| Spain                    | 3 750        | 1 266        | 1 111        | 2 576        | 1 282        |
| United States            | 62           | 213          | 147          | 227          | 167          |
| Other Countries          | 14           | --           | --           | --           | 3            |
|                          | <u>4 840</u> | <u>2 814</u> | <u>2 676</u> | <u>4 296</u> | <u>2 877</u> |
| TOTAL                    |              |              |              |              |              |
| TOTAL VALUE<br>(\$'000)  | <u>3 406</u> | <u>4 923</u> | <u>5 941</u> | <u>6 802</u> | <u>6 821</u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 46

CANADIAN IMPORTS OF PALM OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Indonesia                | 15 249      | 16 254      | 9 946       | 5 507       | 504         |
| Malaysia                 | 13 972      | 5 840       | 6 186       | 4 585       | 13 793      |
| Netherlands              | 8           | 508         | --          | 119         | --          |
| Singapore                | --          | --          | 1 025       | 9 553       | 586         |
| United States            | 1 941       | 573         | 1 199       | 203         | 285         |
| Other Countries          | 9           | 30          | 10          | 1           | 17          |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                    | 31 179      | 23 205      | 18 366      | 19 968      | 15 185      |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000)  | 17 142      | 14 763      | 13 608      | 13 422      | 9 873       |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-007



Table 47

CANADIAN IMPORTS OF PALM KERNEL OIL  
(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Denmark                  | 7             | 16            | 15            | 15            | 34            |
| Indonesia                | 3 905         | 1 605         | 1 002         | --            | --            |
| Malaysia                 | 2 941         | 4 552         | 7 134         | 8 565         | 7 682         |
| Netherlands              | --            | --            | --            | --            | 5             |
| Singapore                | --            | 250           | --            | --            | --            |
| United States            | 339           | 845           | 655           | 328           | 872           |
| Other Countries          | --            | --            | 1             | --            | 10            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL                    | 7 192         | 7 252         | 8 807         | 8 908         | 8 603         |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL VALUE<br>(\$'000)  | 3 236         | 5 387         | 9 182         | 7 282         | 5 880         |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 48

CANADIAN IMPORTS OF PEANUT OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>       | <u>1978</u>       | <u>1979</u>       | <u>1980</u>       | <u>1981</u>       |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Brazil                   | 604               | --                | 1 498             | --                | --                |
| Hong Kong                | 40                | 52                | 38                | 31                | 41                |
| United States            | 6 201             | 6 393             | 3 922             | 4 944             | 4 094             |
| Other Countries          | --                | 9                 | 3                 | 2                 | 2                 |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL                    | 6 845             | 6 460             | 5 461             | 4 977             | 4 137             |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL VALUE<br>(\$'000)  | 5 582             | 6 964             | 5 761             | 4 224             | 4 840             |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 49

CANADIAN EXPORTS OF VEGETABLE OILS & FATS (NES)

(Tonnes)

| <u>DESTINATION</u>          | <u>1977</u>      | <u>1978</u>      | <u>1979</u>      | <u>1980</u>      | <u>1981</u>       |
|-----------------------------|------------------|------------------|------------------|------------------|-------------------|
| Algeria                     | --               | --               | --               | --               | 8 393             |
| Barbados                    | 46               | 53               | 138              | 54               | 30                |
| Cuba                        | 3                | 3                | 3                | 3                | 3                 |
| Emirates, UA                | --               | --               | 11               | --               | --                |
| France                      | --               | --               | 2 044            | --               | 1 003             |
| Germany, West               | 3                | --               | 1                | 25               | 492               |
| Guyana                      | 4                | 383              | --               | 4                | --                |
| Japan                       | --               | --               | --               | --               | 877               |
| Leeward-Windward Is.        | 100              | 41               | 190              | 180              | 141               |
| Netherlands                 | 57               | 41               | 2 475            | --               | 3 465             |
| Saudi Arabia                | 32               | 15               | --               | --               | --                |
| Trinidad-Tobago             | 159              | 2 059            | 780              | 818              | 872               |
| United Kingdom              | 66               | 47               | 28               | 1                | 793               |
| United States               | 855              | 702              | 1 468            | 545              | 1 398             |
| Other Countries             | 88               | 167              | 73               | 598              | 83                |
| <br>TOTAL                   | <br><u>1 413</u> | <br><u>3 512</u> | <br><u>7 220</u> | <br><u>2 228</u> | <br><u>18 343</u> |
| <br>TOTAL VALUE<br>(\$'000) | <br><u>918</u>   | <br><u>1 915</u> | <br><u>5 530</u> | <br><u>3 027</u> | <br><u>13 734</u> |

Source: Statistics Canada, Catalogue No. 65-004

Table 50

MANUFACTURERS PACKAGED SALES OF SPECIFIED FATS AND OILS PRODUCTS

(Thousands of Tonnes)

|                          | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u>     | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-----------------|-------------|
| Margarine <sup>1/</sup>  | 136         | 111         | 128         | 130             | 142         |
| <u>Shortening</u>        |             |             |             |                 |             |
| Packaged <sup>2/</sup>   | 90          | 94          | 99          | x <sup>5/</sup> | 17          |
| Bulk <sup>3/</sup>       | 81          | 85          | N.A.        | 82              | 85          |
| Salad Oils <sup>4/</sup> | 101         | 99          | 61          | 56              | 56          |

<sup>1/</sup> Includes retail and commercial packages.  
Commercial sales (21-450 pound) packages  
account for about 20 per cent of total output.

<sup>2/</sup> Retail packages up to 20 pounds only.

<sup>3/</sup> Covers commercial (21-450 pound) packages,  
bulk and other than packaged retail sales  
of manufacturers of shortening and deodorized  
shortening oil. Includes baking and frying  
fats and oils.

<sup>4/</sup> Retail, commercial and industrial sales.

<sup>5/</sup> Confidential

Source: Statistics Canada, Catalogue No. 32-006

Table 51

CANADIAN IMPORTS OF LARD AND SHORTENING

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| France                   | 3           | 1           | 9           | 17          | 20          |
| Germany, West            | 3           | 9           | 16          | 16          | 15          |
| Greece                   | --          | 23          | 11          | 11          | 36          |
| Sweden                   | 45          | 33          | --          | --          | --          |
| United States            | 31 880      | 31 241      | 13 938      | 12 177      | 11 730      |
| Other Countries          | --          | 10          | --          | 3           | 6           |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                    | 31 931      | 31 317      | 17 437      | 12 213      | 11 807      |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000)  | 18 972      | 22 128      | 10 492      | 8 086       | 7 433       |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-007

Table 52

CANADIAN EXPORTS OF MARGARINE, SHORTENING AND LARD

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Bahrain                 | --          | 6           | 6           | --          | --          |
| Bermuda                 | 15          | 27          | 20          | 17          | 19          |
| Colombia                | --          | --          | --          | --          | 5           |
| Emirates, UA            | 64          | 41          | 72          | --          | --          |
| Dominican Rep.          | --          | --          | --          | --          | 2           |
| Germany, West           | 2           | 1           | 1           | 2           | 4           |
| Hong Kong               | --          | --          | 11          | 66          | 29          |
| Jamaica                 | 4           | --          | --          | --          | --          |
| Japan                   | --          | 3           | --          | --          | --          |
| Jordan                  | 16          | --          | 43          | --          | --          |
| Kuwait                  | 46          | 95          | 108         | --          | --          |
| Lebanon                 | 190         | 203         | 92          | 2           | 67          |
| Leeward-Windward Is.    | 19          | 45          | 88          | 70          | 144         |
| Netherlands-Antilles    | 32          | 40          | 92          | 79          | 127         |
| Poland                  | --          | --          | --          | --          | 55          |
| Puerto Rico             | --          | 72          | --          | --          | --          |
| Qatar                   | 11          | 12          | --          | --          | --          |
| Saudi Arabia            | 64          | 665         | 280         | --          | --          |
| St. Pierre-Miquelon     | 41          | 37          | 34          | 26          | 37          |
| Trinidad-Tobago         | 1           | --          | 18          | --          | --          |
| United Kingdom          | --          | --          | 2           | --          | 1           |
| United States           | 122         | 311         | 88          | 200         | 13          |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                   | 634         | 1 559       | 955         | 462         | 504         |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000) | 770         | 1 914       | 1 316       | 376         | 574         |
|                         | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |



Table 53

CANADIAN IMPORTS OF VEGETABLE COOKING FATS  
AND PACKAGED SALAD OILS  
(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| France                   | 1             | 1             | 3             | --            | --            |
| Greece                   | 12            | 18            | --            | --            | 3             |
| Sweden                   | 1             | 4             | 5             | --            | 1             |
| United Kingdom           | 4             | 10            | 5             | 3             | 2             |
| United States            | 404           | 127           | 10            | 32            | 55            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL                    | 423           | 163           | 23            | 35            | 61            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |
| TOTAL VALUE<br>(\$'000)  | 342           | 213           | 26            | 32            | 89            |
|                          | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> | <u>      </u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 54

CANADIAN IMPORTS OF TALLOW, ANIMAL OILS, GREASES AND FATS (NES)  
(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>       | <u>1978</u>       | <u>1979</u>       | <u>1980</u>       | <u>1981</u>       |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Australia                | --                | 12                | 1 181             | 2                 | 4                 |
| Germany, West            | 41                | 51                | 1                 | 8                 | 27                |
| United Kingdom           | --                | 11                | 5                 | 36                | 18                |
| United States            | 2 900             | 7 418             | 4 924             | 5 998             | 4 475             |
| Other Countries          | 7                 | 14                | --                | 29                | 15                |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL                    | 2 948             | 7 506             | 6 111             | 6 073             | 4 539             |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL VALUE<br>(\$'000)  | 1 521             | 2 138             | 3 463             | 3 589             | 3 030             |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 55

CANADIAN EXPORTS OF TALLOW, ANIMAL OILS AND FATS (NES)

(Tonnes)

| <u>DESTINATION</u>          | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| Belgium-Luxembourg          | 798         | 2 203       | 988         | --          | 1 590       |
| Brazil                      | --          | 6           | 18          | 18          | --          |
| Chile                       | 249         | --          | 280         | 669         | 551         |
| Colombia                    | 22          | 28          | --          | 17          | --          |
| Cuba                        | 5 600       | 3 026       | 3 001       | 4 963       | 4 802       |
| Dominican Republic          | --          | --          | 320         | 845         | 2 004       |
| France                      | 2 362       | 3 682       | 3 524       | 8 004       | 6 071       |
| Germany, West               | 2 112       | 898         | 5 071       | 9 633       | 3 542       |
| Guatemala                   | 517         | 17          | 22          | 39          | 53          |
| Iran                        | --          | 1 079       | --          | --          | --          |
| Ireland                     | --          | --          | 220         | 26          | 449         |
| Italy                       | --          | --          | ---         | --          | 1           |
| Ivory Coast                 | 496         | 1 178       | --          | --          | --          |
| Jamaica                     | 338         | --          | --          | 59          | 25          |
| Japan                       | 25 111      | 23 719      | 28 176      | 34 580      | 36 467      |
| Kenya                       | 110         | 1 550       | 200         | 175         | --          |
| Korea, South                | 26 269      | 22 996      | 25 801      | 21 245      | 31 082      |
| Leeward-Windward Is.        | 1           | --          | 20          | 8           | 47          |
| Malaysia                    | 146         | 118         | 72          | 237         | 135         |
| Mexico                      | 44          | 11          | --          | --          | 18          |
| Morocco                     | --          | 600         | 325         | 1 151       | --          |
| Netherlands                 | 38 105      | 47 483      | 54 991      | 62 807      | 72 867      |
| People's Republic of China  | 8 630       | 3 065       | 4 065       | 3 049       | 3 324       |
| Portugal                    | 145         | 211         | 210         | 160         | 217         |
| Singapore                   | 51          | 18          | 46          | 33          | 109         |
| Spain                       | 9 343       | 6 997       | 2 018       | 791         | 2 610       |
| Switzerland                 | 169         | 236         | 232         | 261         | 351         |
| Taiwan                      | 2 900       | 1 950       | 600         | 900         | --          |
| Trinidad-Tobago             | 486         | 504         | 1 364       | 765         | 1 240       |
| United Kingdom              | 18 064      | 25 234      | 13 598      | 13 459      | 12 529      |
| United States               | 4 456       | 4 889       | 8 374       | 9 462       | 5 312       |
| Venezuela                   | 1 132       | 208         | 228         | 333         | 151         |
| Zaire                       | --          | 200         | --          | --          | --          |
| Other Countries             | 104         | 5           | 1 018       | 1 357       | 1 016       |
| <br>TOTAL                   | <br>140 829 | <br>140 115 | <br>154 578 | <br>175 046 | <br>186 563 |
| <br>TOTAL VALUE<br>(\$'000) | <br>54 856  | <br>68 256  | <br>97 500  | <br>92 742  | <br>98 174  |

Source: Statistics Canada, Catalogue No. 65-004

CHAPTER 9

FISH AND MARINE OILS AND MEALS

Canadian Trade

Exports of marine oils in 1981 rose slightly to 9 050 tonnes over the 1980 level of 8 569 tonnes. Imports of marine oils fell to 431 tonnes from 529 tonnes in 1980.

Exports of fish meal and condensed solubles increased to 32 795 tonnes valued at \$17.6 million. The imports of fish meal during 1981 increased sharply to 1 807 tonnes from 323 tonnes in 1980.

Table 56

CANADIAN EXPORTS OF MARINE OILS BY TYPES

(Tonnes)

| <u>TYPE</u>                       | <u>1977</u>   | <u>1978</u>  | <u>1979</u>   | <u>1980</u>  | <u>1981</u>  |
|-----------------------------------|---------------|--------------|---------------|--------------|--------------|
| Cod Liver Oil,<br>Sun Rotted      | 915           | 1 546        | 1 162         | 1 032        | 915          |
| Herring Oil                       | 4 124         | 3 679        | 6 274         | 6 274        | 4 196        |
| Whale Oil                         | 14            | 11           | --            | 8            | 3            |
| Fish and Marine<br>Animal Oil NES | <u>10 987</u> | <u>4 161</u> | <u>4 004</u>  | <u>2 805</u> | <u>3 936</u> |
| TOTAL                             | <u>16 040</u> | <u>9 397</u> | <u>11 440</u> | <u>8 569</u> | <u>9 050</u> |
| TOTAL VALUE<br>(\$'000)           | <u>3 950</u>  | <u>4 633</u> | <u>4 407</u>  | <u>4 575</u> | <u>4 353</u> |

Source: Statistics Canada, Catalogue No. 65-004

Table 57

CANADIAN IMPORTS OF FISH AND MARINE ANIMAL OILS (NES)

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>       | <u>1978</u>       | <u>1979</u>       | <u>1980</u>       | <u>1981</u>       |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Japan                    | 9                 | 10                | --                | 18                | 31                |
| Netherlands              | --                | 16                | --                | --                | --                |
| Norway                   | 3                 | 155               | 135               | 193               | 99                |
| United Kingdom           | 5                 | 182               | 66                | 98                | 68                |
| United States            | 393               | 288               | 107               | 219               | 232               |
| Other Countries          | --                | 3                 | --                | 1                 | 1                 |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL                    | 410               | 654               | 308               | 529               | 431               |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL VALUE              |                   |                   |                   |                   |                   |
| (\$'000)                 | 263               | 699               | 381               | 883               | 729               |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |

Source: Statistics Canada, Catalogue No. 65-007



Table 58

CANADIAN EXPORTS OF FISH MEAL AND CONDENSED SOLUBLES

(Tonnes)

| <u>TYPE</u>                               | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|---|---------------|---------------|---------------|---------------|---------------|
| Herring Meal and<br>Pilchard Meal         | 11 181        | 11 484        | 7 054         | 8 086         | 7 597         |
| Fish Meal NES                             | 16 445        | 23 546        | 19 084        | 22 283        | 24 973        |
| Fish Condensed<br>Homogenized<br>Solubles | <u>307</u>    | <u>517</u>    | <u>--</u>     | <u>350</u>    | <u>225</u>    |
| TOTAL<br>(Meal Only)                      | <u>27 933</u> | <u>35 547</u> | <u>26 138</u> | <u>30 719</u> | <u>32 795</u> |
| TOTAL VALUE<br>(Meal Only)<br>(\$'000)    | <u>11 367</u> | <u>16 520</u> | <u>12 461</u> | <u>14 761</u> | <u>17 614</u> |

Source: Statistics Canada, Catalogue No. 65-004

Table 59

CANADIAN IMPORTS OF FISH MEAL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u>  |
|--------------------------|-------------|-------------|-------------|-------------|--------------|
| France                   | --          | --          | 12          | --          | --           |
| Ireland                  | --          | --          | --          | --          | 1            |
| Taiwan                   | 13          | --          | --          | --          | --           |
| United Kingdom           | --          | 2           | 21          | 12          | 10           |
| United States            | <u>451</u>  | <u>340</u>  | <u>275</u>  | <u>311</u>  | <u>1 796</u> |
| TOTAL                    | <u>464</u>  | <u>342</u>  | <u>308</u>  | <u>323</u>  | <u>1 807</u> |
| TOTAL VALUE<br>(\$'000)  | <u>153</u>  | <u>91</u>   | <u>111</u>  | <u>80</u>   | <u>522</u>   |

Source: Statistics Canada, Catalogue No. 65-007

CHAPTER 10

OTHER INEDIBLE FATS AND OILS

Castor oil imports increased in 1981 to 1 740 tonnes, up 47 per cent from the 1980 level of 1 183 tonnes. The imports of tung oil, tall oil, tall oil pitch, tall oil fatty acids, mixtures and derivatives of oils, fats, waxes and chemically modified oils, fats and waxes all increased in value and volumes.

The exports of chemically modified oils, fats and waxes also increased in both volume and value during 1981.

Table 60

CANADIAN IMPORTS OF CASTOR OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>       | <u>1978</u>       | <u>1979</u>       | <u>1980</u>       | <u>1981</u>       |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Brazil                   | 257               | 843               | 970               | --                | 1 194             |
| Ecuador                  | 29                | 250               | --                | --                | --                |
| United States            | 1 025             | 591               | 751               | 781               | 546               |
| United Kingdom           | --                | --                | --                | 402               | --                |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL                    | <u>1 311</u>      | <u>1 684</u>      | <u>1 721</u>      | <u>1 183</u>      | <u>1 740</u>      |
|                          | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL VALUE<br>(\$'000)  | <u>1 343</u>      | <u>1 719</u>      | <u>1 729</u>      | <u>1 546</u>      | <u>1 861</u>      |

Source: Statistics Canada, Catalogue No. 65-007

Table 61

CANADIAN IMPORTS OF CHINAWOOD OIL OR TUNG OIL

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Argentina                | 29          | 160         | 115         | 43          | 28          |
| Paraguay                 | 223         | 85          | 14          | 56          | 48          |
| United States            | 433         | 380         | 448         | 427         | 458         |
| Other Countries          | 14          | 55          | 63          | --          | 79          |
| TOTAL                    | 699         | 680         | 640         | 526         | 613         |
| TOTAL VALUE<br>(\$'000)  | 1 371       | 1 662       | 982         | 642         | 948         |

Source: Statistics Canada, Catalogue No. 65-007

Table 62

CANADIAN IMPORTS OF TALL OIL, TALL OIL PITCH  
AND TALL OIL FATTY ACIDS  
(Tonnes)

| <u>TALL OIL AND TALL OIL PITCH</u> | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>  |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|
| United States                      | 757          | 1 167        | 1 394        | 1 135        | 1 184        |
| <u>TALL OIL FATTY ACIDS</u>        |              |              |              |              |              |
| United States                      | 5 159        | 4 577        | 4 753        | 4 014        | 4 386        |
| Other Countries                    | --           | --           | --           | --           | 36           |
| TOTAL                              | <u>5 916</u> | <u>5 744</u> | <u>6 147</u> | <u>5 149</u> | <u>5 606</u> |
| TOTAL VALUE<br>(\$'000)            | <u>3 252</u> | <u>3 322</u> | <u>3 306</u> | <u>3 210</u> | <u>3 101</u> |

Source: Statistics Canada, Catalogue No. 65-007



Table 63

CANADIAN IMPORTS OF MIXTURES AND DERIVATIVES  
OF OILS, FATS AND WAXES  
(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u>   | <u>1978</u>   | <u>1979</u>   | <u>1980</u>   | <u>1981</u>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Brazil                   | --            | 45            | 43            | 27            | 61            |
| Germany, West            | 116           | 43            | 76            | 66            | 31            |
| Netherlands              | --            | 28            | 6             | 177           | --            |
| Norway                   | 237           | 257           | 180           | 469           | 475           |
| United Kingdom           | 604           | 3             | 948           | 832           | 127           |
| United States            | 10 555        | 9 833         | 13 598        | 13 397        | 14 857        |
| Other Countries          | <u>2</u>      | <u>2</u>      | <u>2</u>      | <u>2</u>      | <u>19</u>     |
| TOTAL                    | <u>11 516</u> | <u>11 271</u> | <u>14 853</u> | <u>14 970</u> | <u>15 570</u> |
| TOTAL VALUE<br>(\$'000)  | <u>10 969</u> | <u>13 746</u> | <u>19 589</u> | <u>23 348</u> | <u>23 798</u> |

Source: Statistics Canada, Catalogue No. 65-007

Table 64

CANADIAN IMPORTS OF CHEMICALLY MODIFIED OILS,

FATS AND WAXES

(Tonnes)

| <u>COUNTRY OF ORIGIN</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> | <u>1980</u> | <u>1981</u> |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Brazil                   | 40          | 40          | 260         | 59          | --          |
| France                   | --          | 1           | 2           | 3           | 1           |
| Germany, West            | 69          | 79          | 65          | 104         | 72          |
| India                    | --          | --          | --          | 28          | 91          |
| Netherlands              | 116         | 281         | 270         | 353         | 373         |
| United Kingdom           | 53          | 99          | 10          | 122         | 33          |
| United States            | 5 848       | 7 363       | 3 184       | 3 875       | 4 300       |
| Other Countries          | 3           | 1           | --          | 1           | --          |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL                    | 6 132       | 7 865       | 3 791       | 4 545       | 4 870       |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |
| TOTAL VALUE<br>(\$'000)  | 5 405       | 8 581       | 4 810       | 6 345       | 6 600       |
|                          | <hr/>       | <hr/>       | <hr/>       | <hr/>       | <hr/>       |

Source: Statistics Canada, Catalogue No. 65-007

Table 65

CANADIAN EXPORTS OF CHEMICALLY MODIFIED OILS,

FATS AND WAXES

(Tonnes)

| <u>DESTINATION</u>      | <u>1977</u>  | <u>1978</u>  | <u>1979</u>  | <u>1980</u>  | <u>1981</u>  |
|-------------------------|--------------|--------------|--------------|--------------|--------------|
| Australia               | --           | 91           | 61           | --           | --           |
| Bahamas                 | --           | --           | 2            | --           | --           |
| Barbados                | --           | --           | 3            | 3            | <u>1/</u>    |
| Bermuda                 | --           | 1            | 1            | --           | --           |
| Chile                   | --           | --           | 5            | --           | --           |
| Hong Kong               | --           | --           | --           | 25           | --           |
| Leeward-Windward Is.    | <u>1/</u>    | --           | 2            | <u>1/</u>    | 1            |
| Netherlands-Antilles    | --           | 1            | --           | <u>1/</u>    | 453          |
| United Kingdom          | 150          | --           | 2            | --           | 1            |
| United States           | 3 100        | 4 004        | 2 877        | 2 780        | 2 629        |
| U.S.S.R.                | 508          | --           | --           | --           | --           |
| Venezuela               | 86           | 48           | 1            | 2            | --           |
| Other Countries         | --           | --           | --           | 2            | 9            |
| TOTAL                   | <u>3 846</u> | <u>4 191</u> | <u>2 954</u> | <u>2 810</u> | <u>3 093</u> |
| TOTAL VALUE<br>(\$'000) | <u>2 803</u> | <u>1 249</u> | <u>1 265</u> | <u>1 012</u> | <u>1 451</u> |

1/ Less than one tonne

Source: Statistics Canada, Catalogue No. 65-004





(aussi édité en français)

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